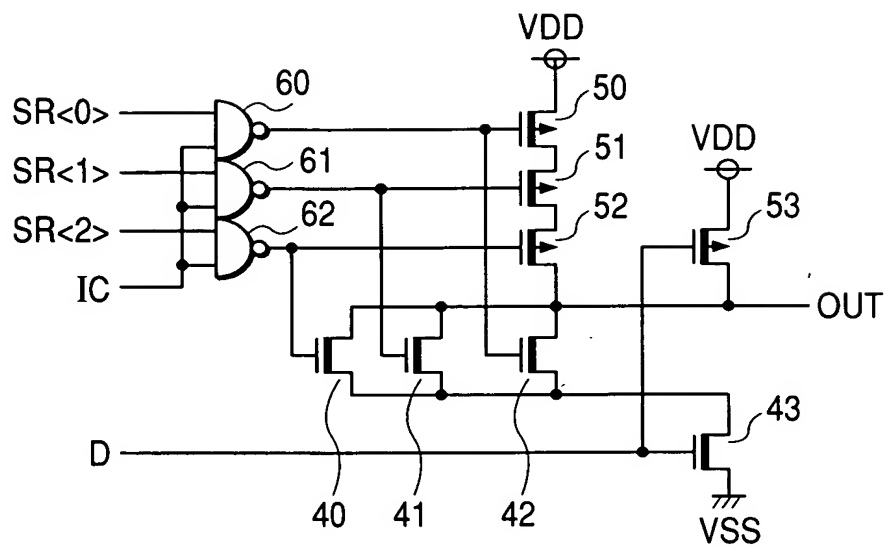


FIG. 3**FIG. 4**

IMPEDANCE CODE		OPERATING BUFFERS (NUMBER)		DQ IMPEDANCE
IC1	IC0			
0	0	NONE	0	∞
0	1	100~102	3	R
1	0	110~122	6	R/2
1	1	100~122	9	R/3

FIG. 5

SLEW RATE CODE			PMOS WHICH ARE ON STATE	ON RESISTANCE OF PRE BUFFERS	OUTPUT SLEW RATE
SR<2>	SR<1>	SR<0>			
1	1	1	40~42	SMALL	BIG
1	1	0	40,41	↑	↑
1	0	1	40,42		
1	0	0	40		
0	1	1	41,42	↓	↓
0	1	0	41		
0	0	1	42	BIG	SMALL
0	0	0	NONE	∞ (PROHIBIT)	—

FIG. 6

BUFFER GROUPS CONTROLLED BY SLEW RATE	IMPEDANCE CODE COMBINATION			
	(IC1,IC0)			
	0,0	0,1	1,0	1,1
20	∞	3*R	1.5*R	R
21	∞	3*R	1.5*R	R
22	∞	3*R	1.5*R	R
TOTAL	∞	R	R/2	R/3

FIG. 7

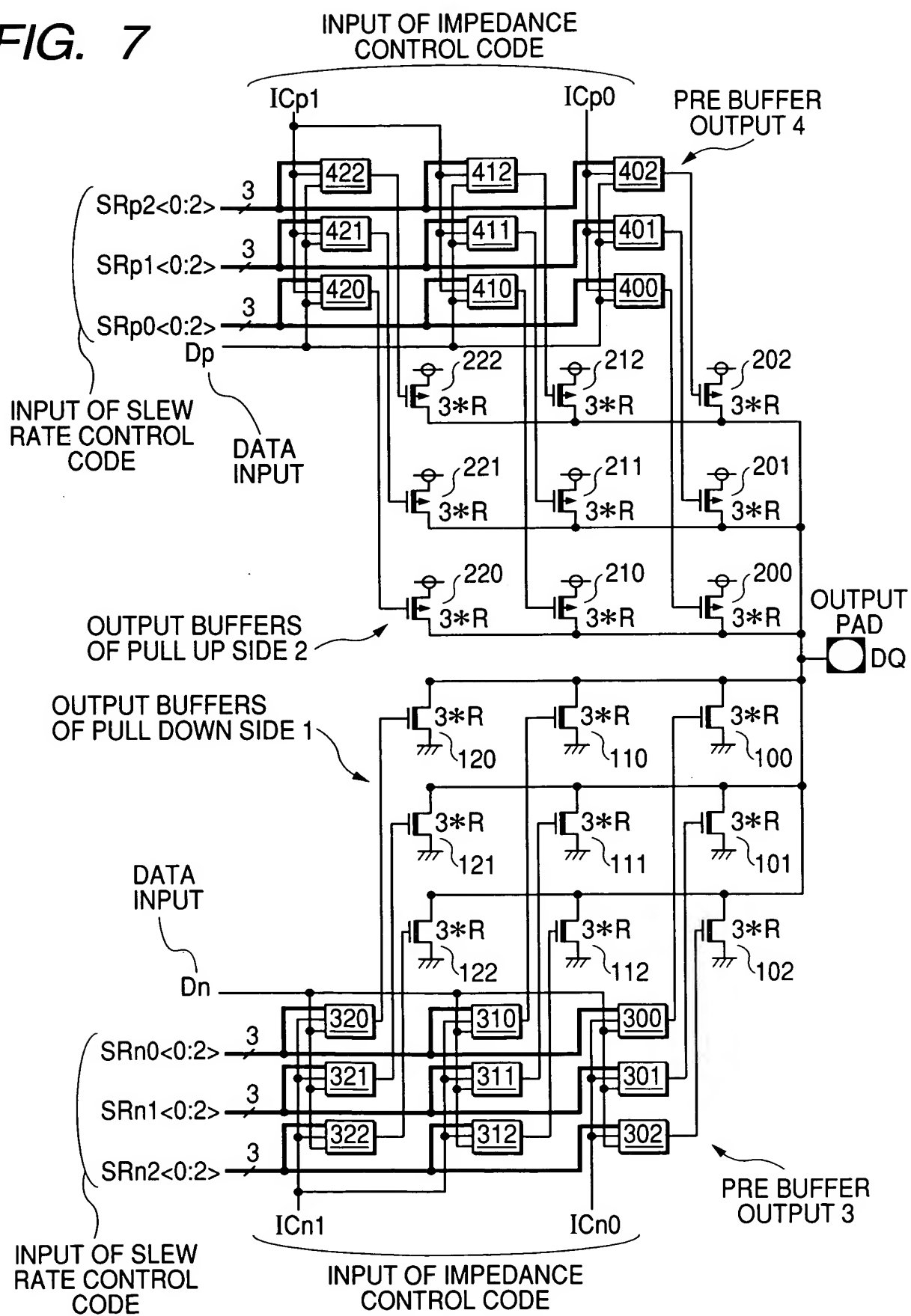


FIG. 8

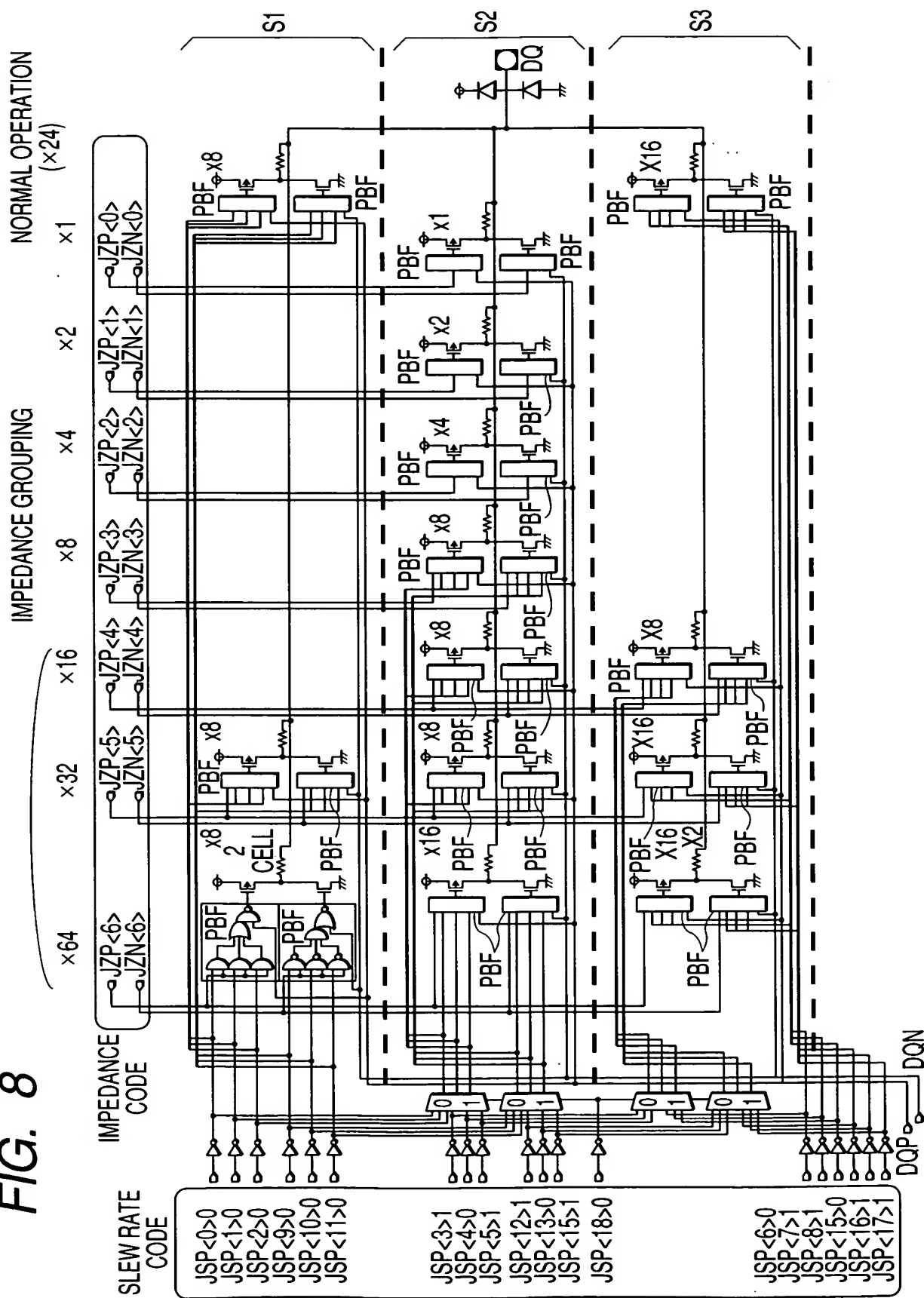


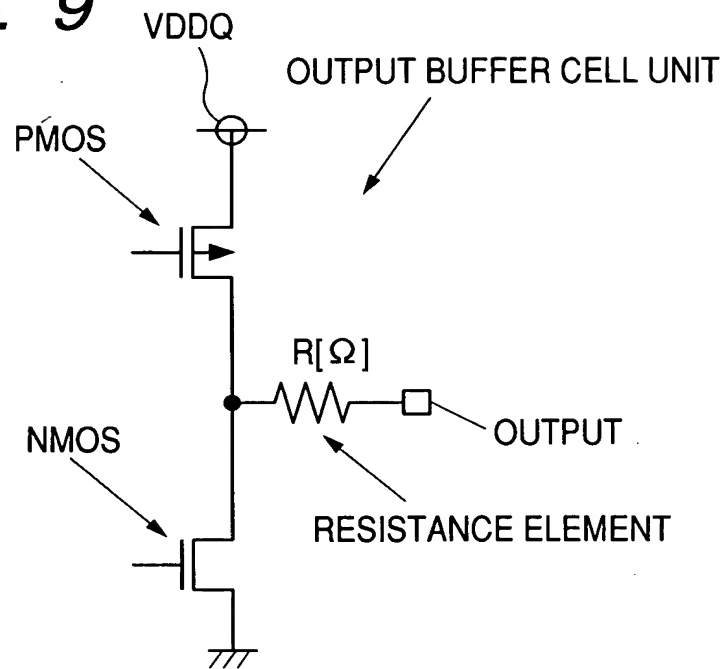
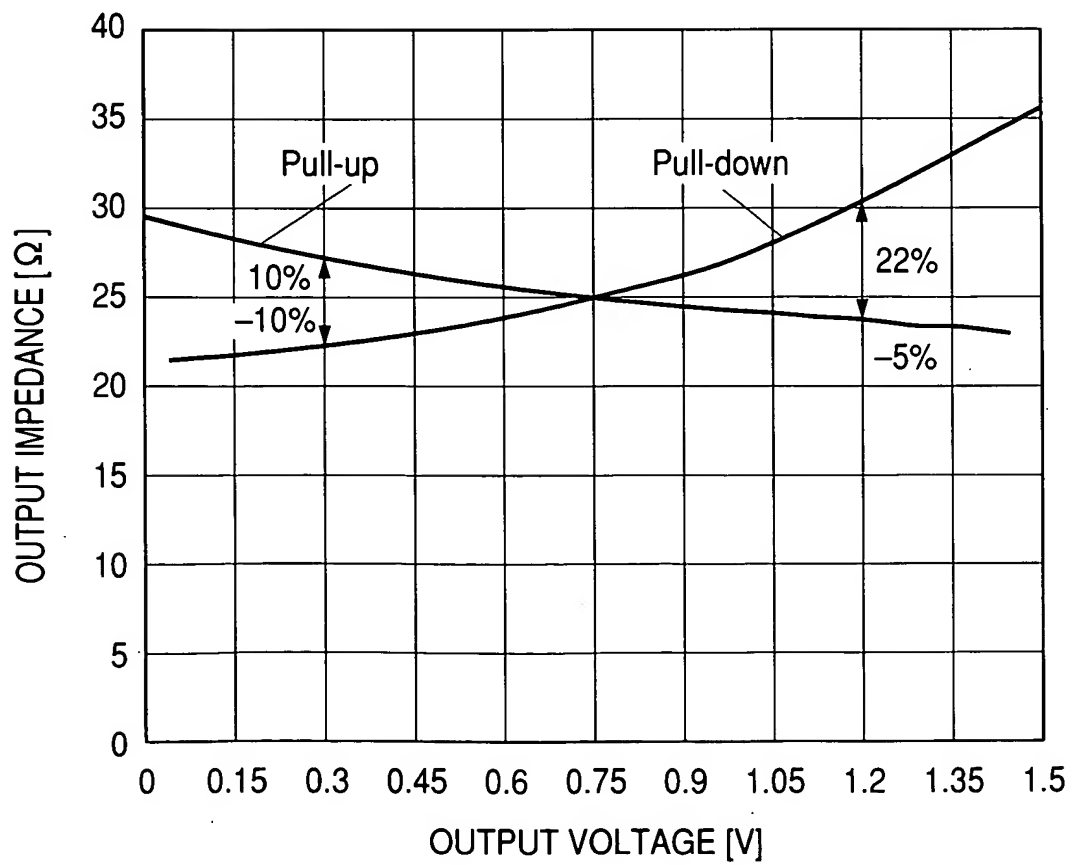
FIG. 9**FIG. 10**

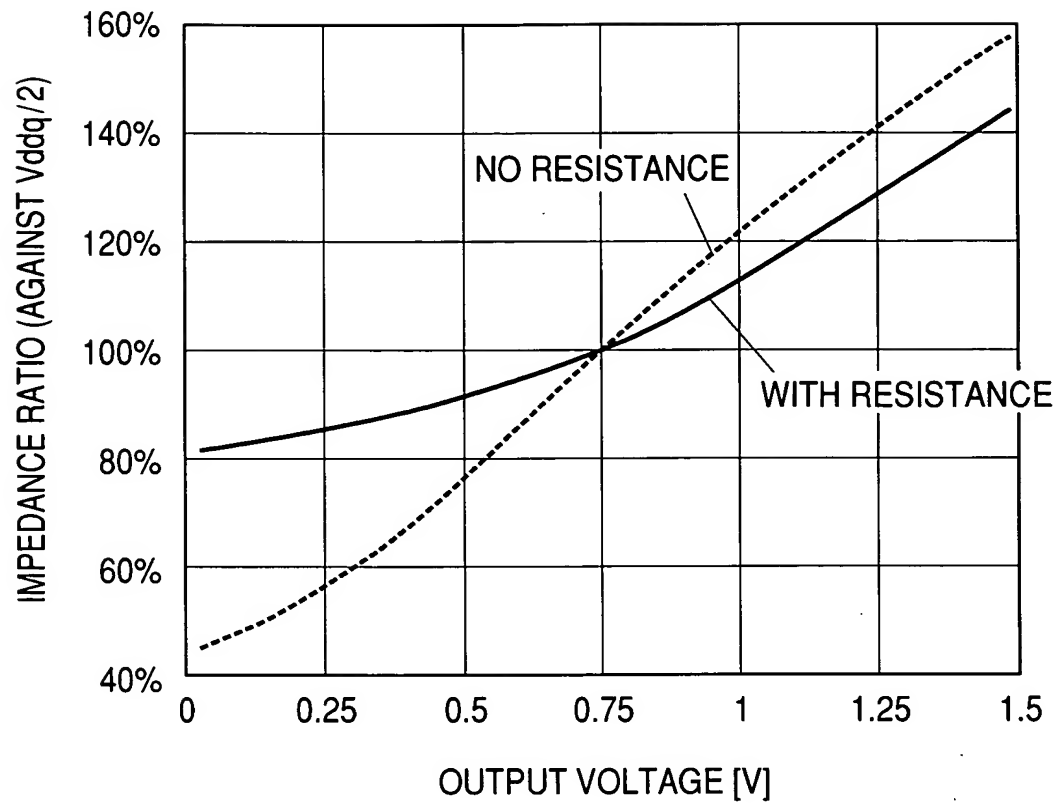
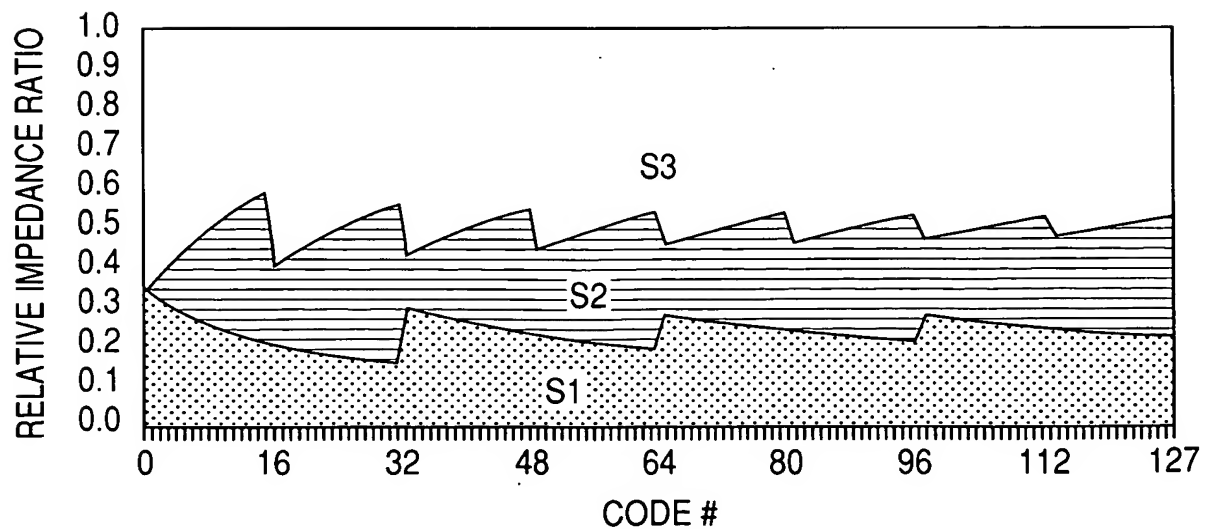
FIG. 11**FIG. 12**

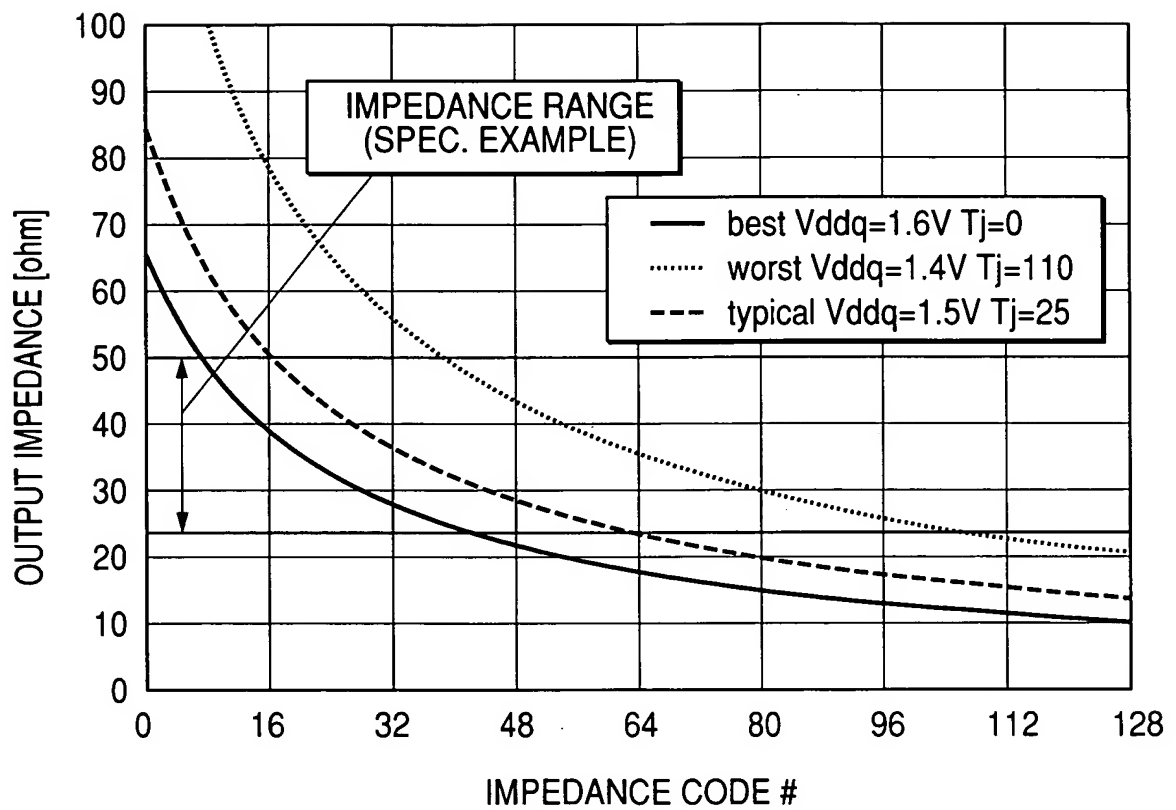
FIG. 13

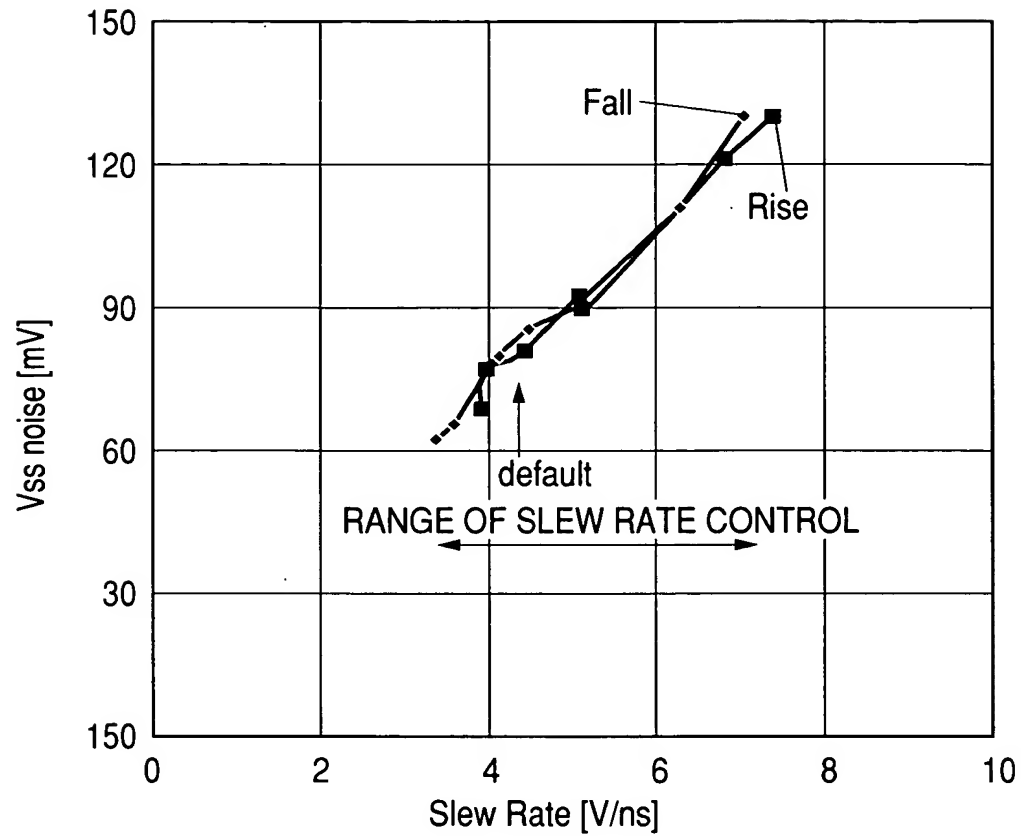
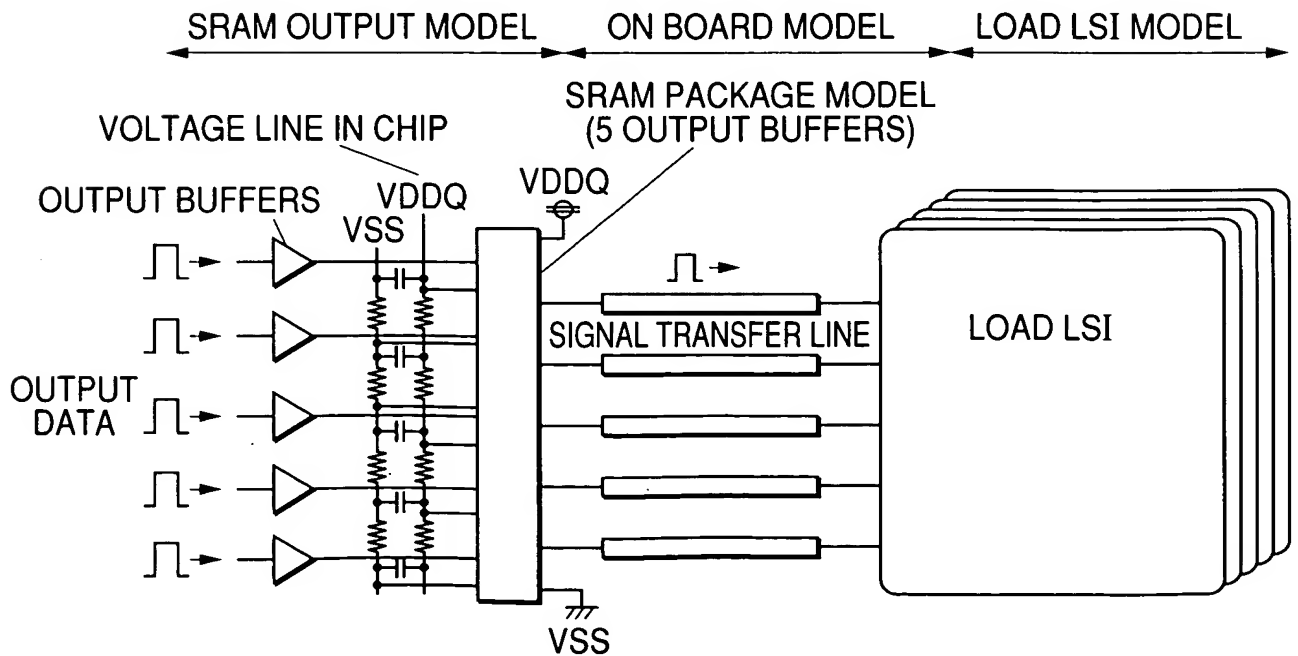
FIG. 14**FIG. 15**

FIG. 16(a)

FIG. 16(b)

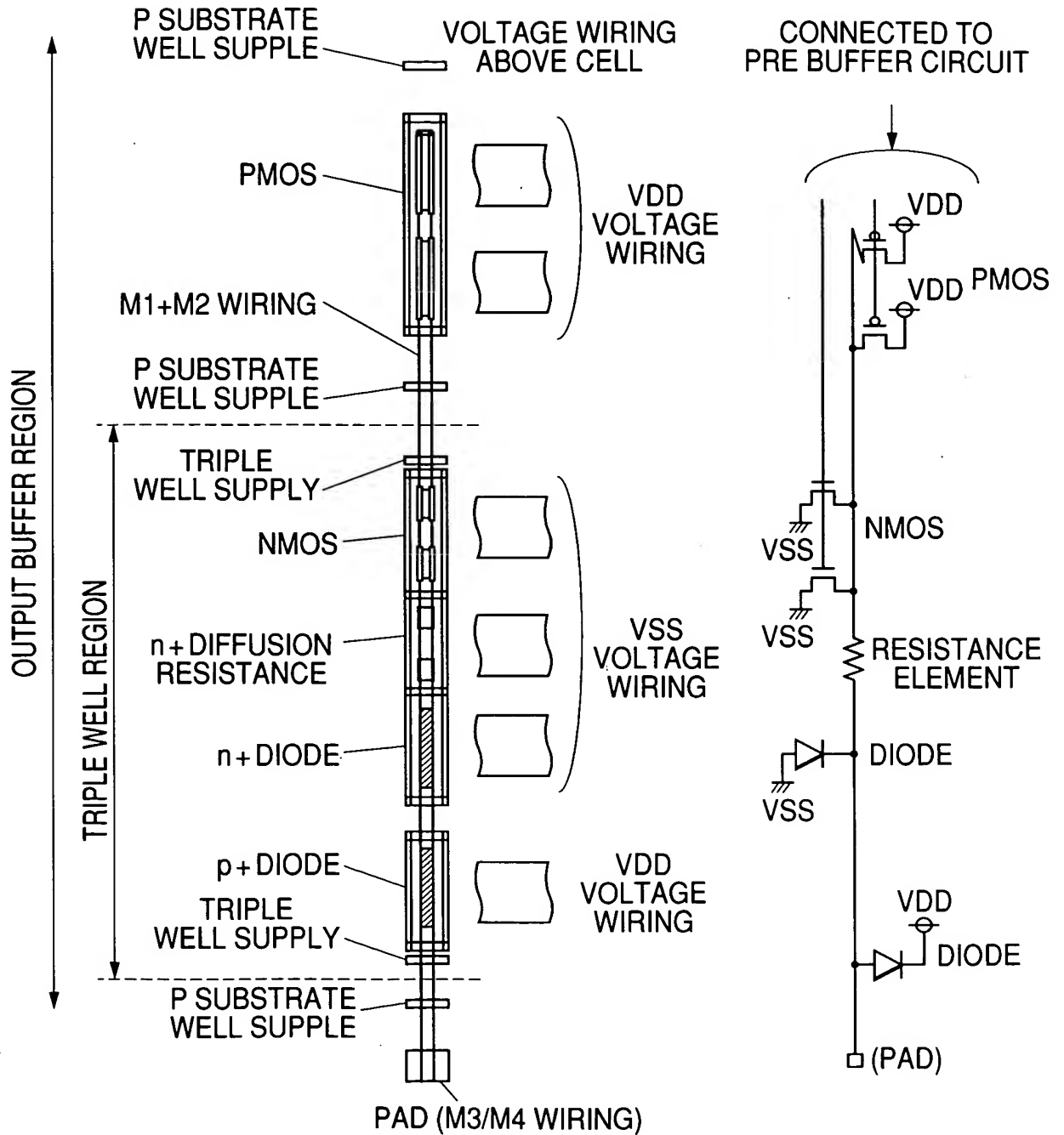


FIG. 17

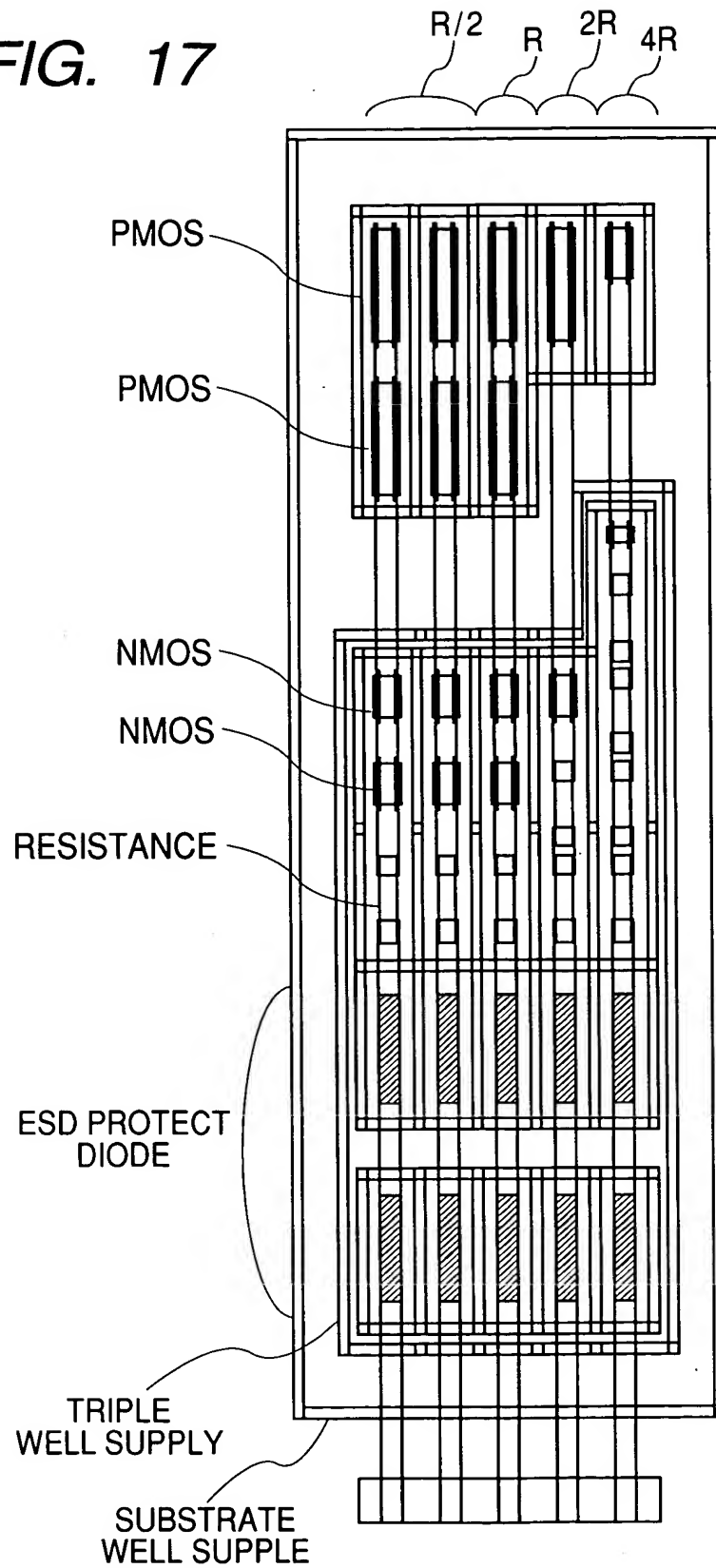


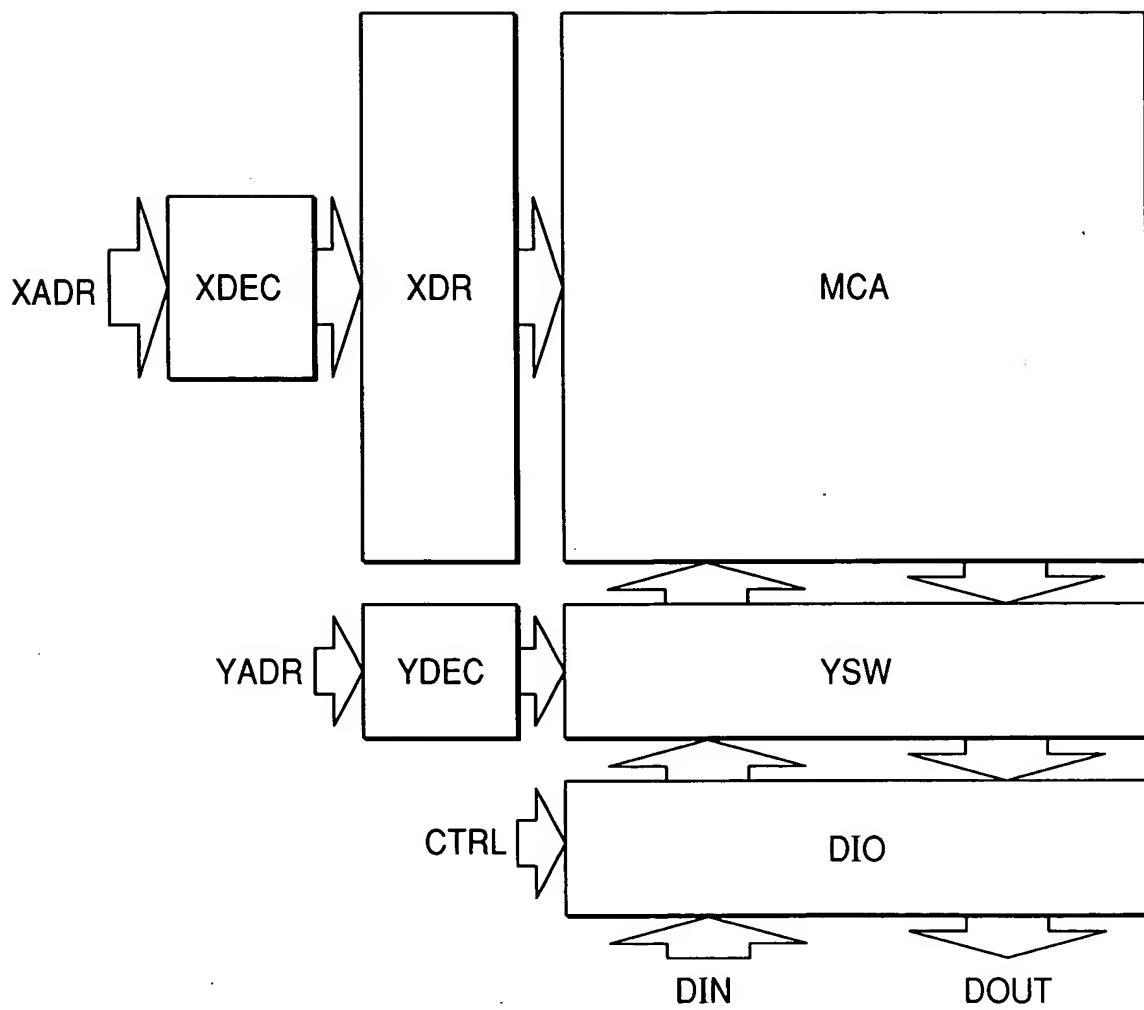
FIG. 18

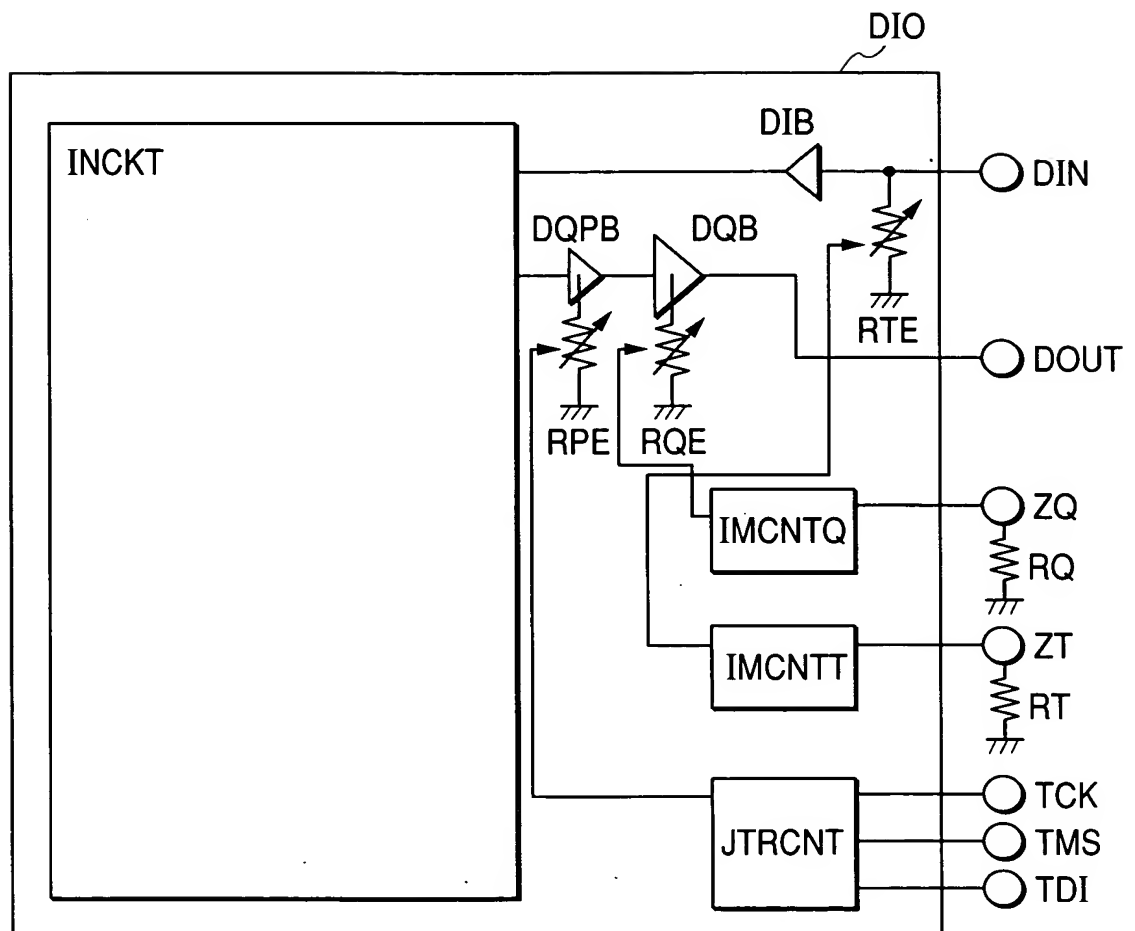
FIG. 19

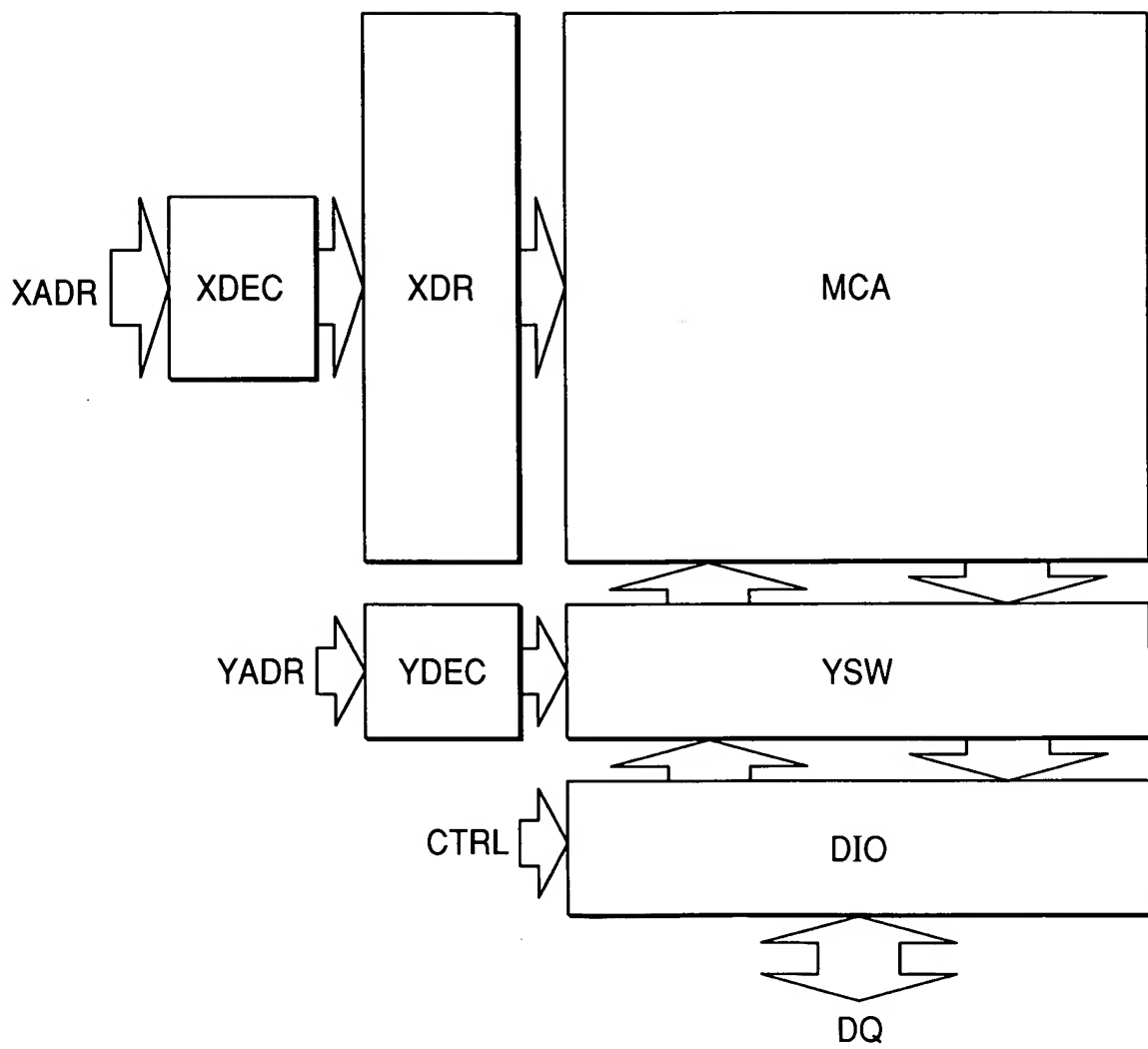
FIG. 20

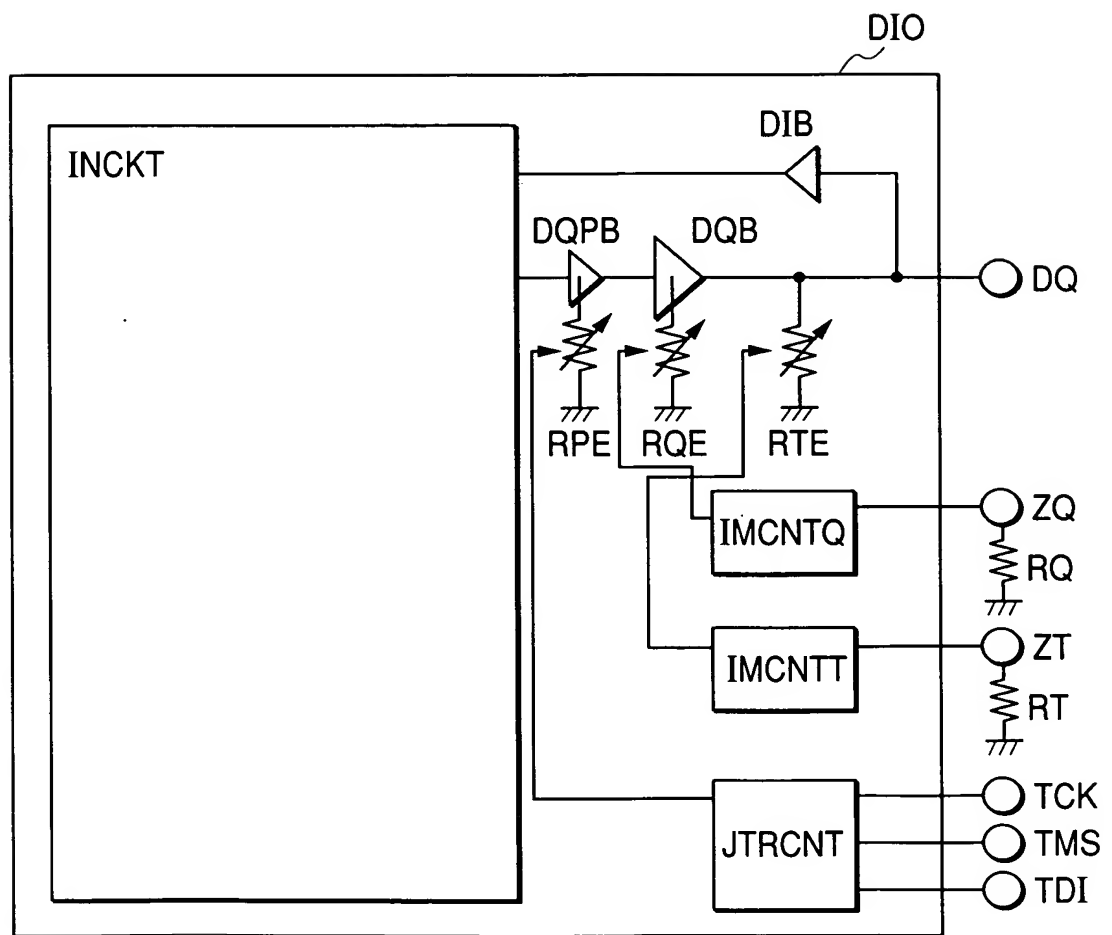
FIG. 21

FIG. 22

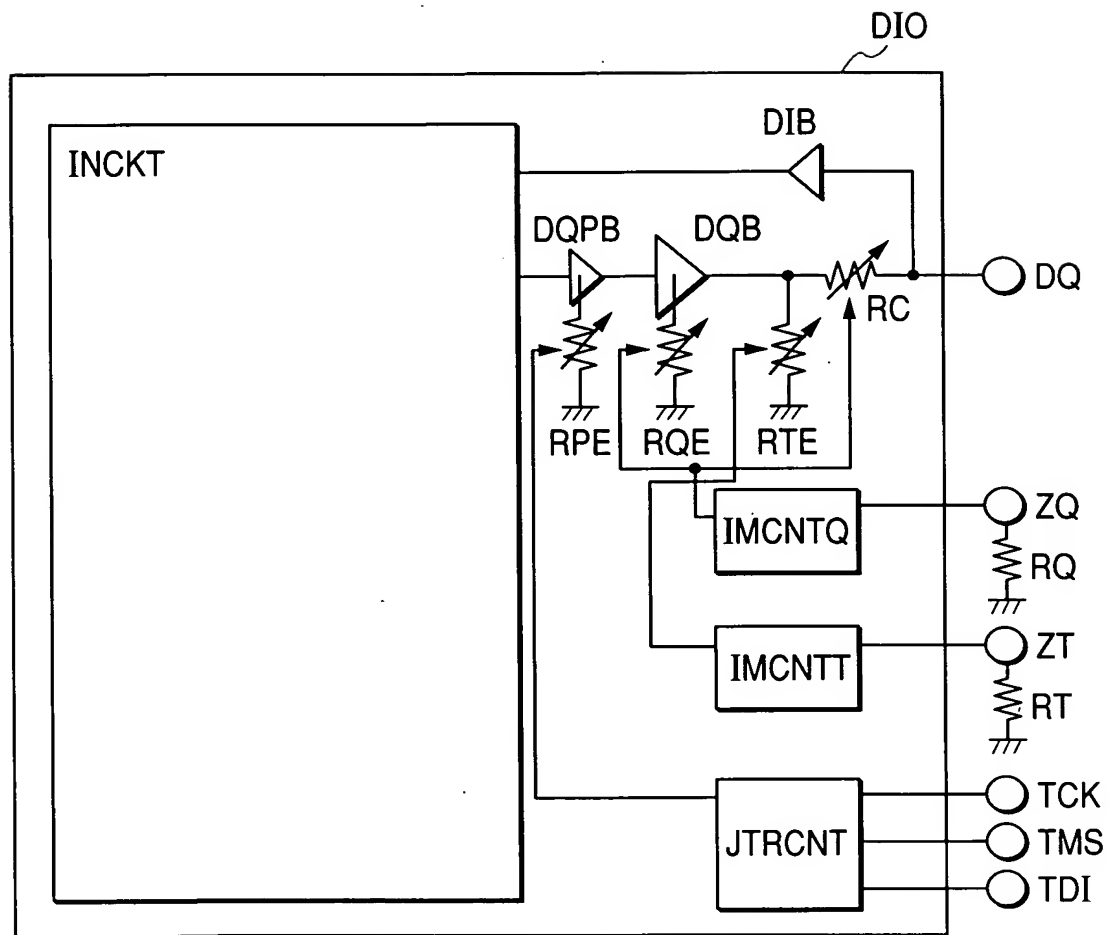


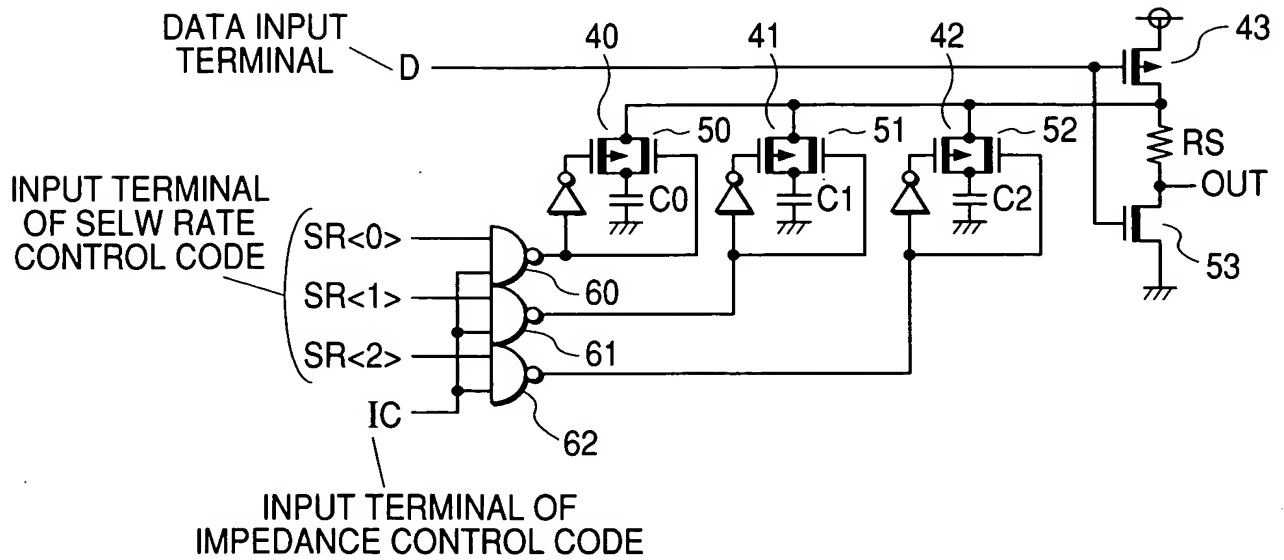
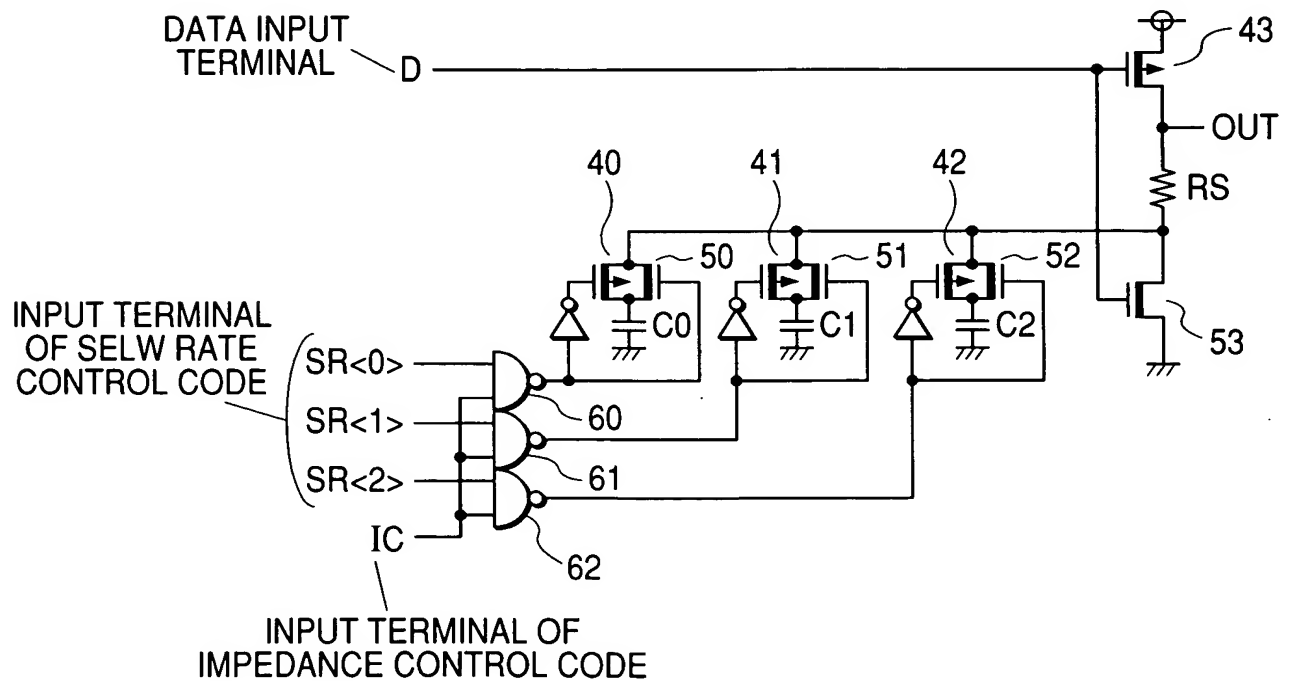
FIG. 23**FIG. 24**

FIG. 26

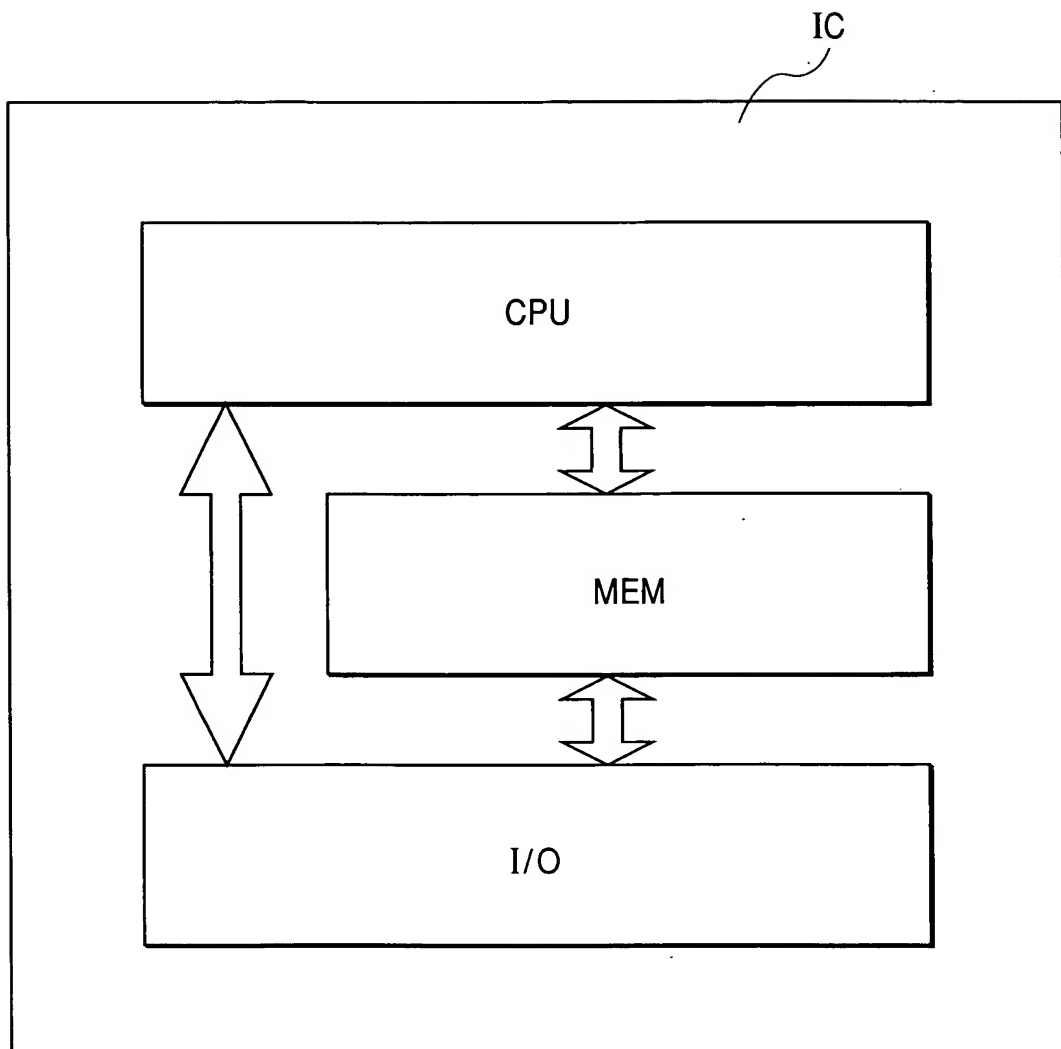


FIG. 27

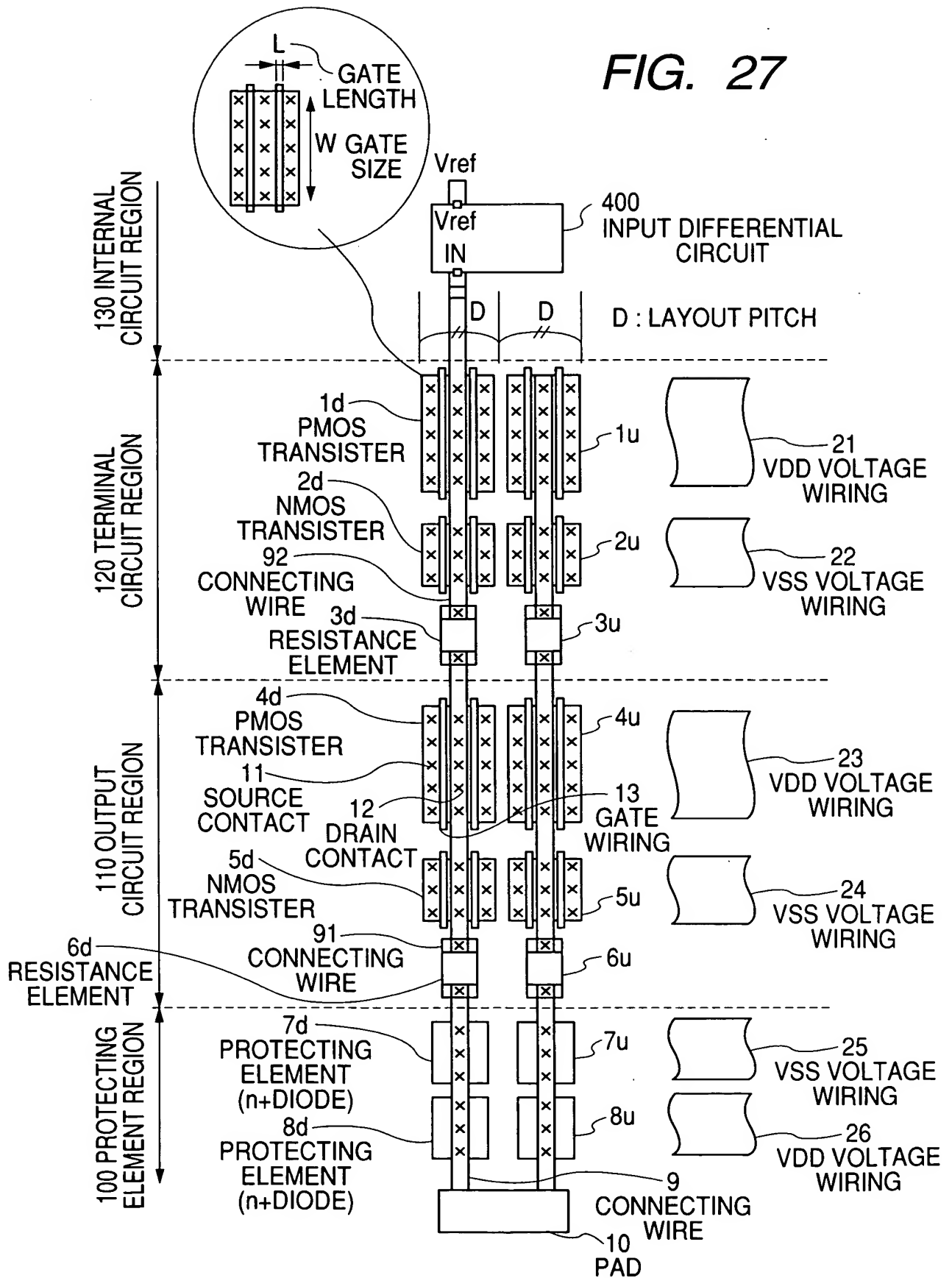


FIG. 28

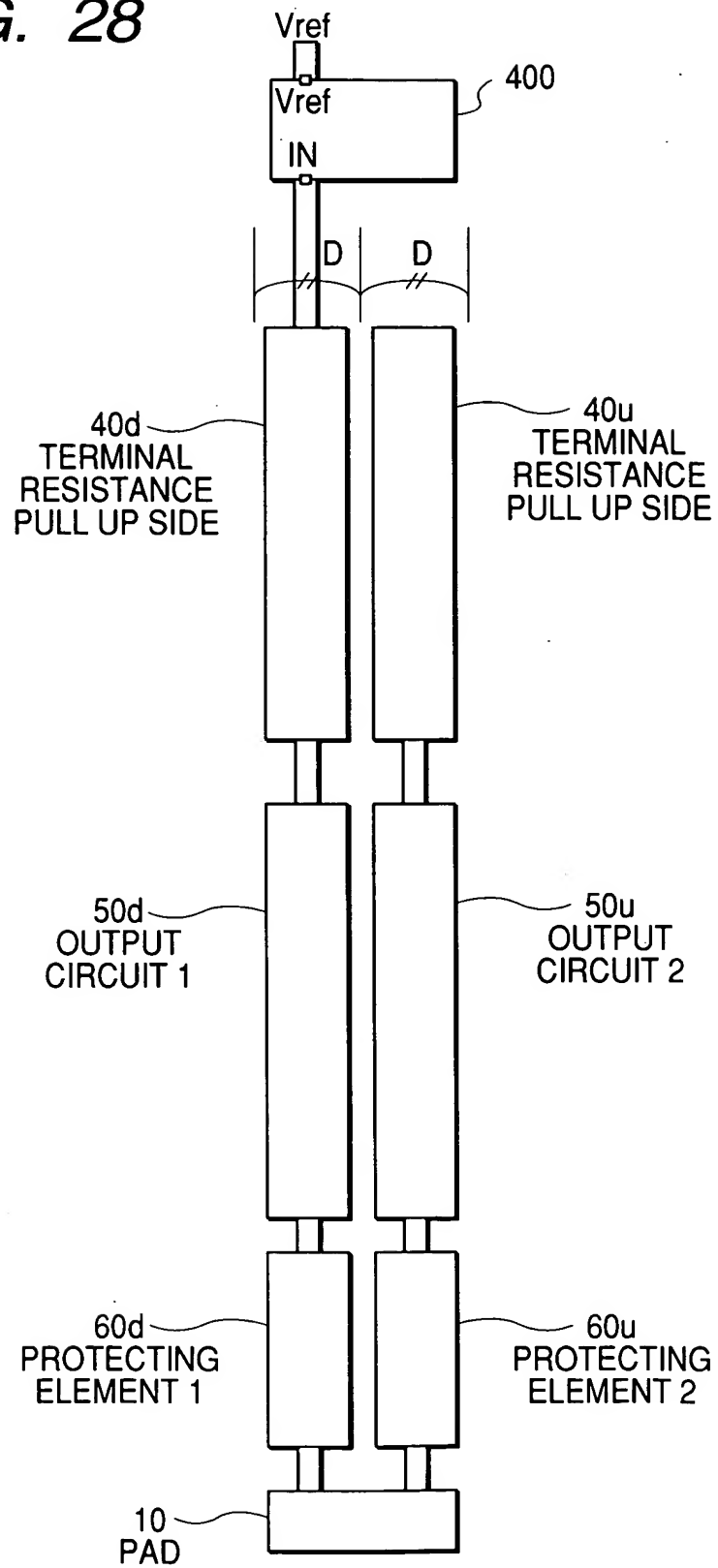


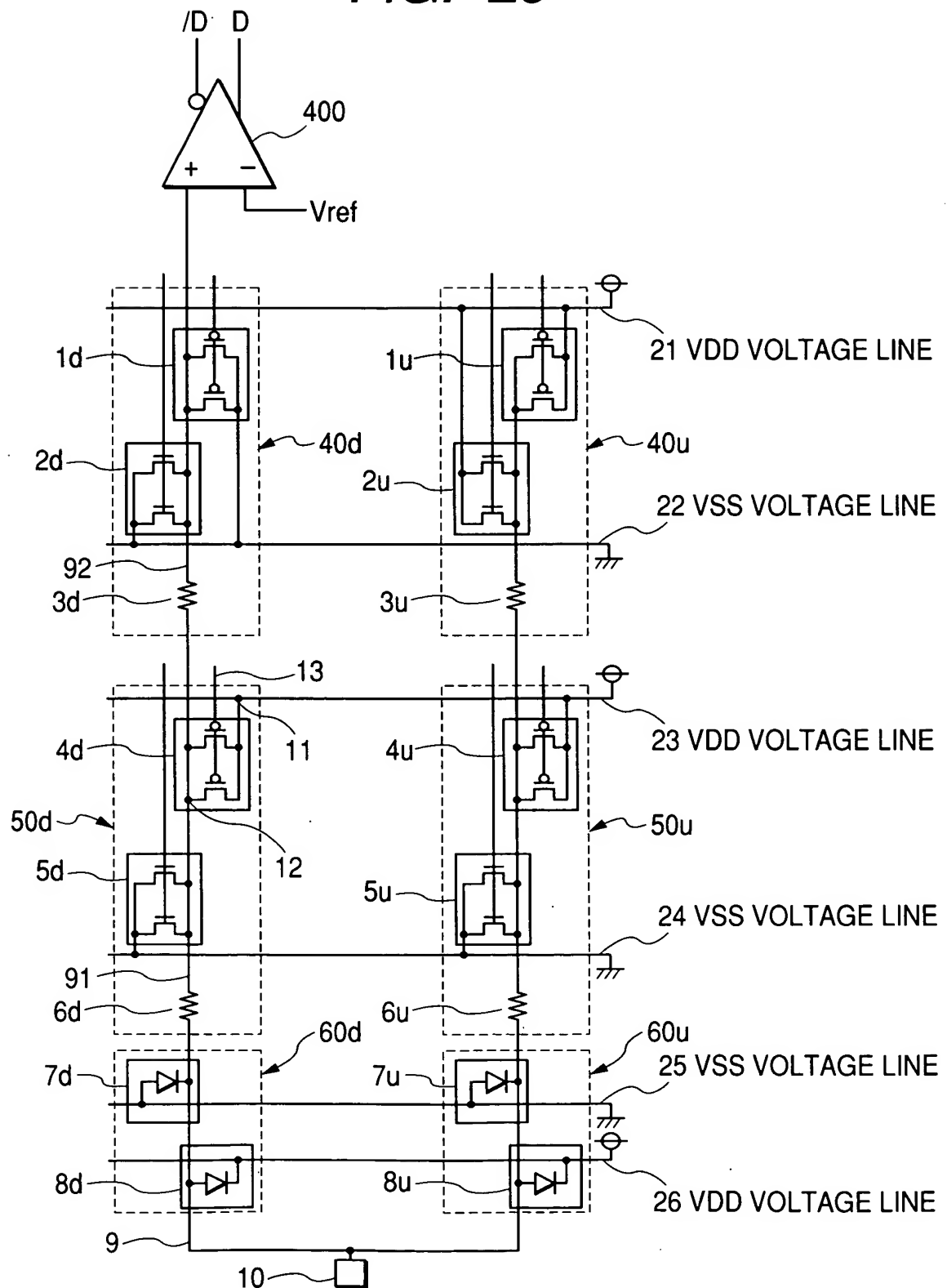
FIG. 29

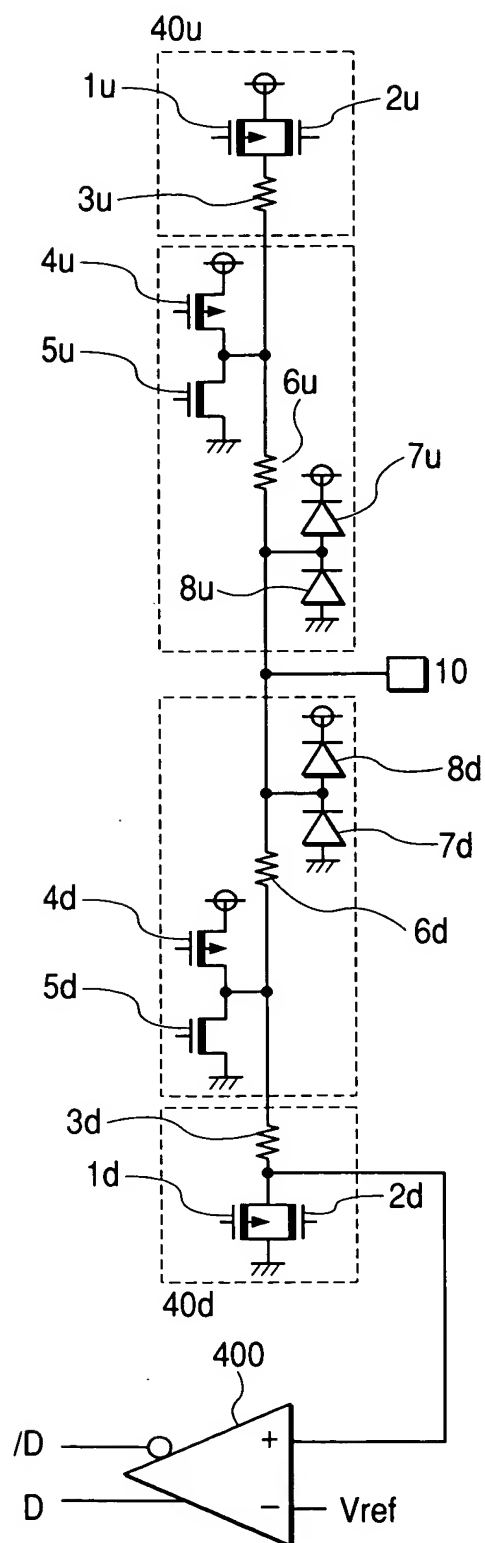
FIG. 30

FIG. 31

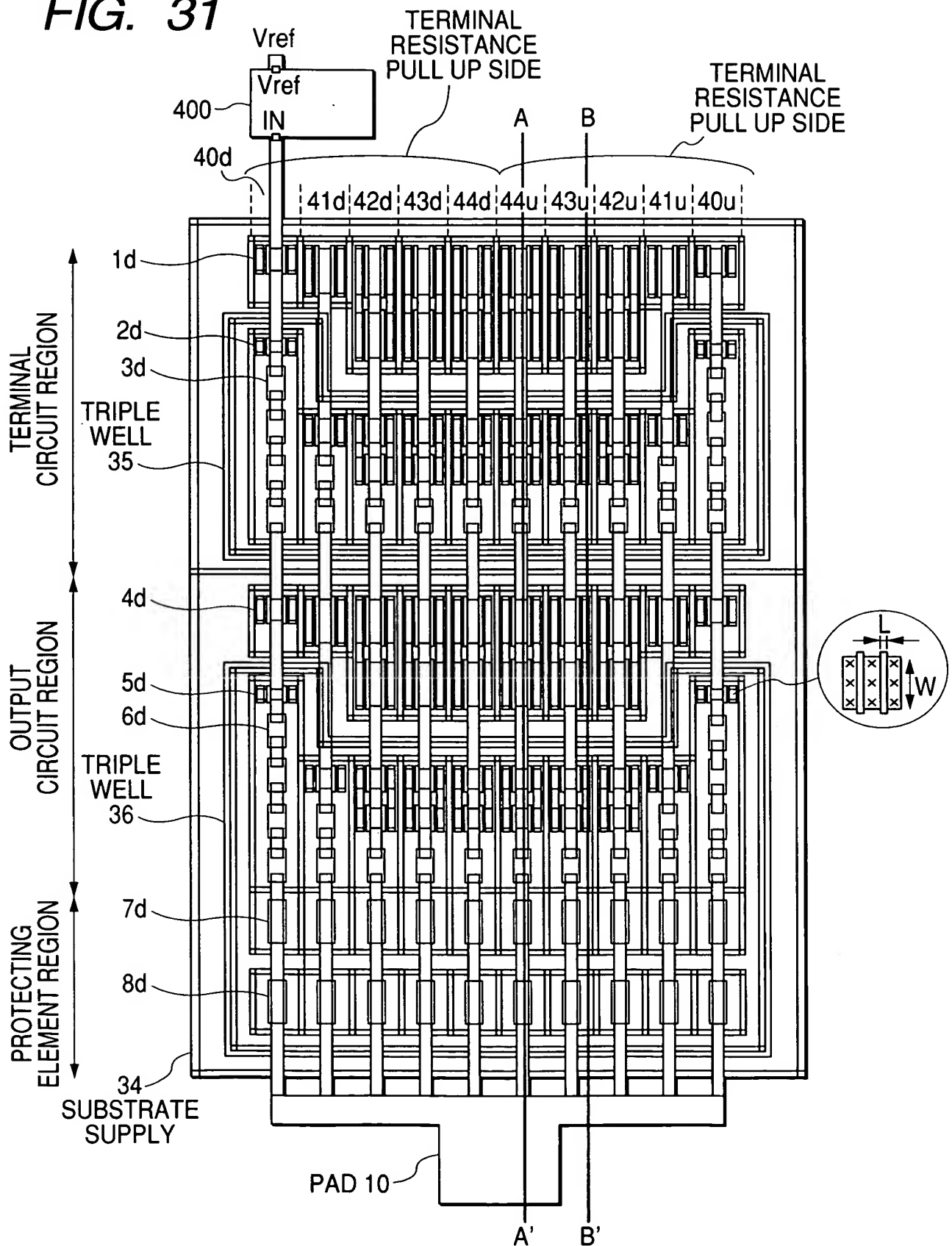


FIG. 32

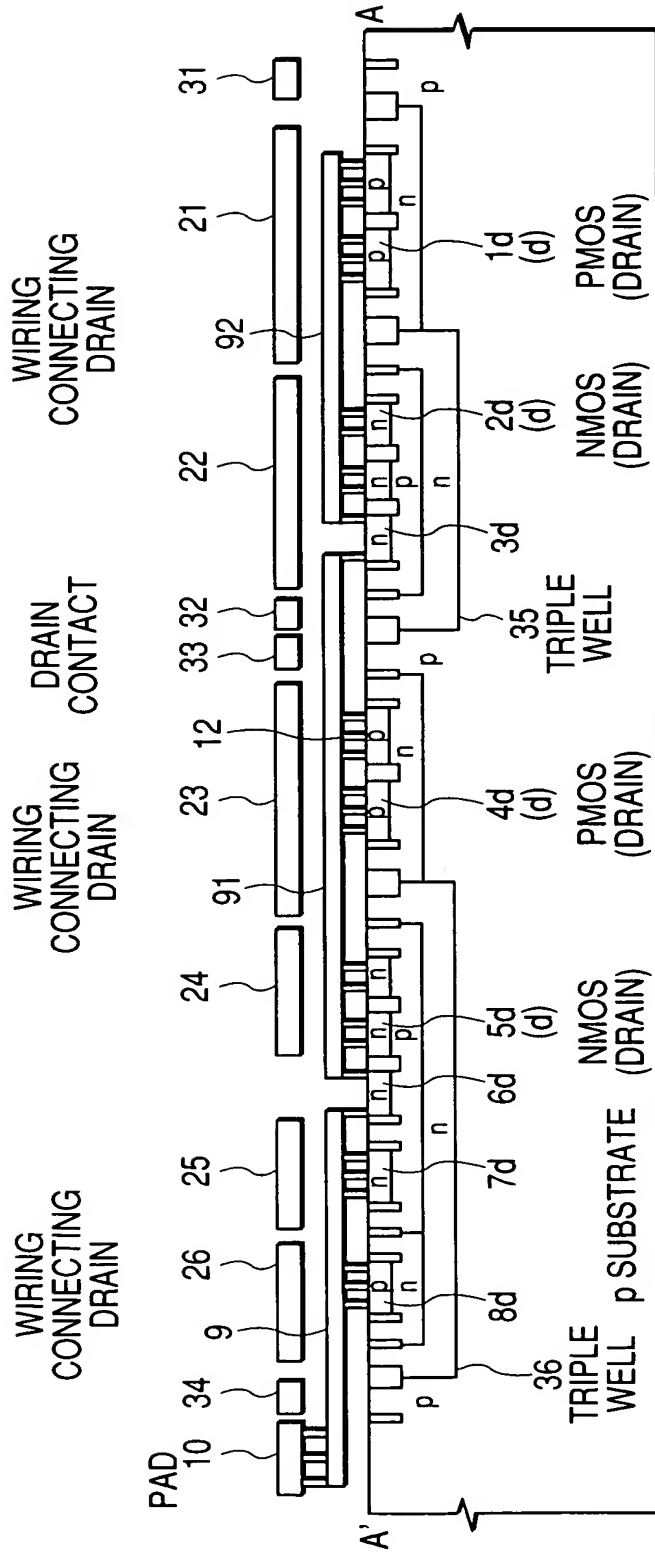


FIG. 33

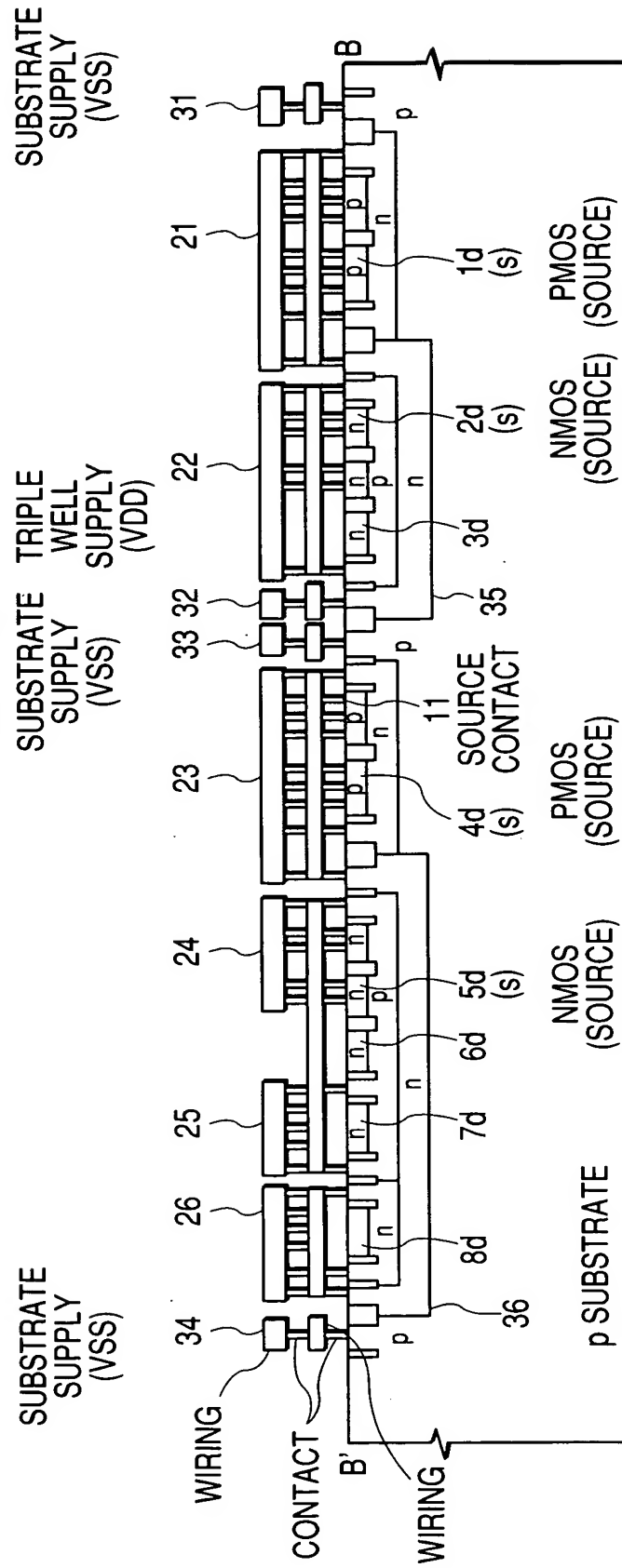


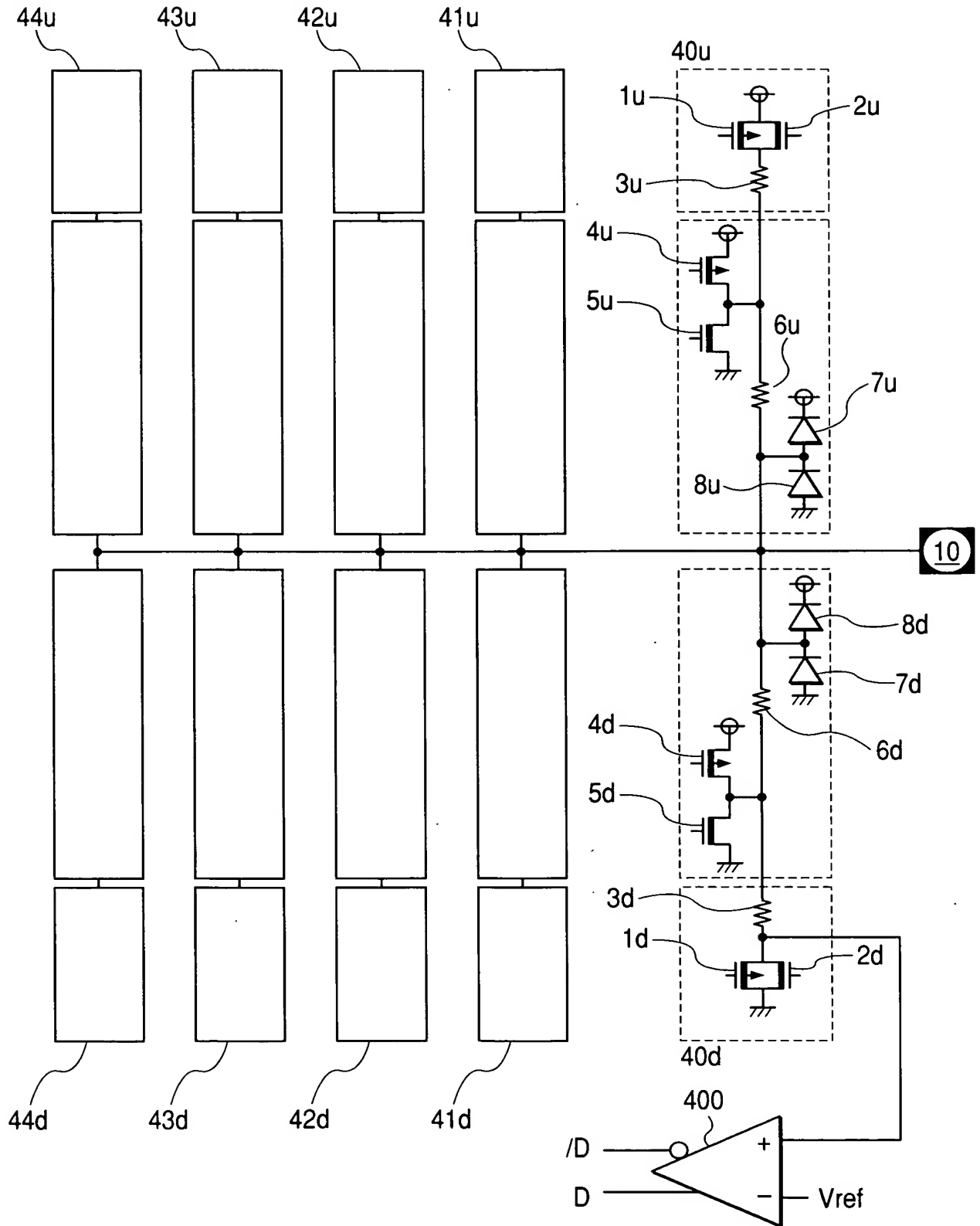
FIG. 34

FIG. 35

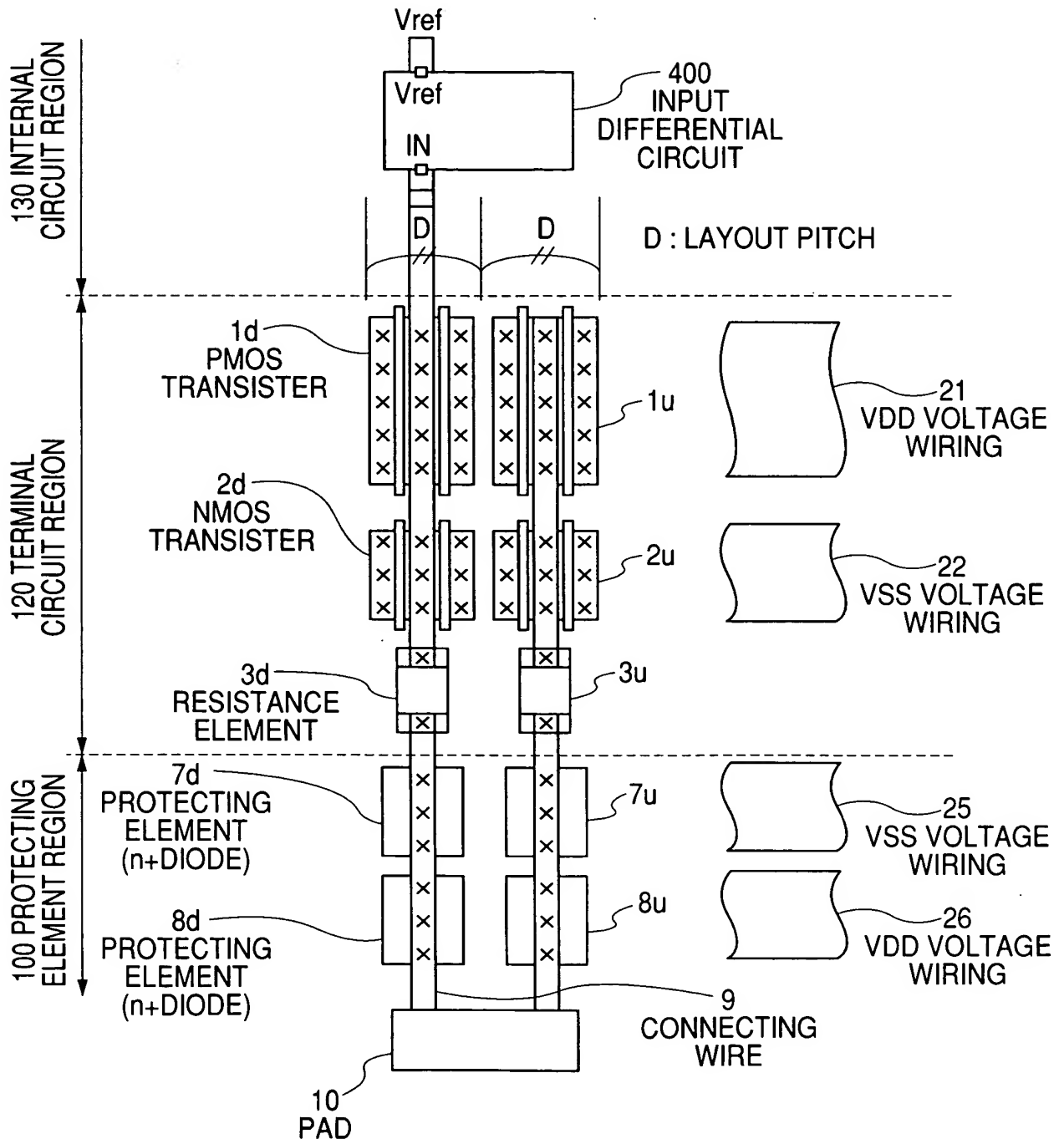


FIG. 36

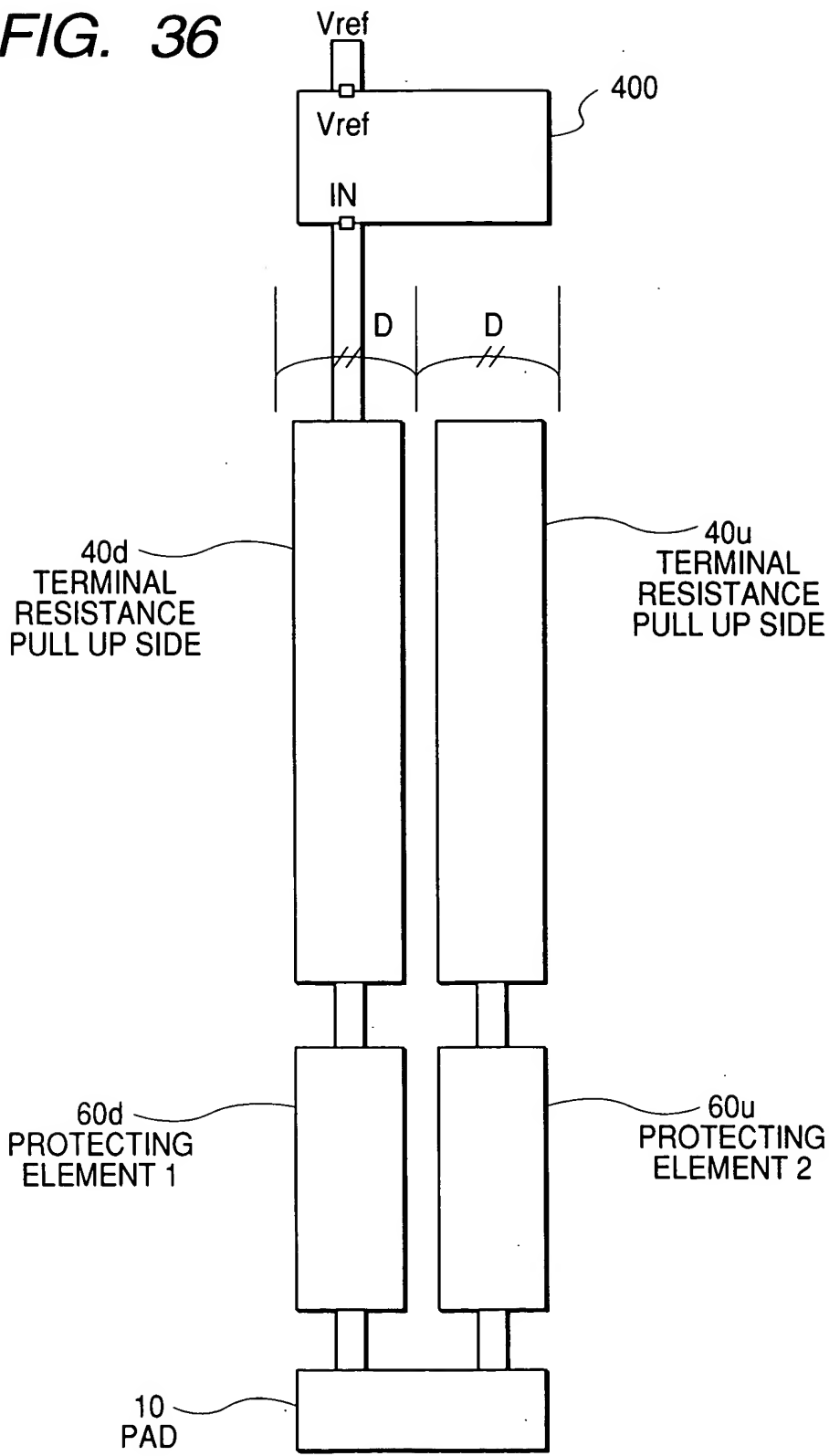


FIG. 37

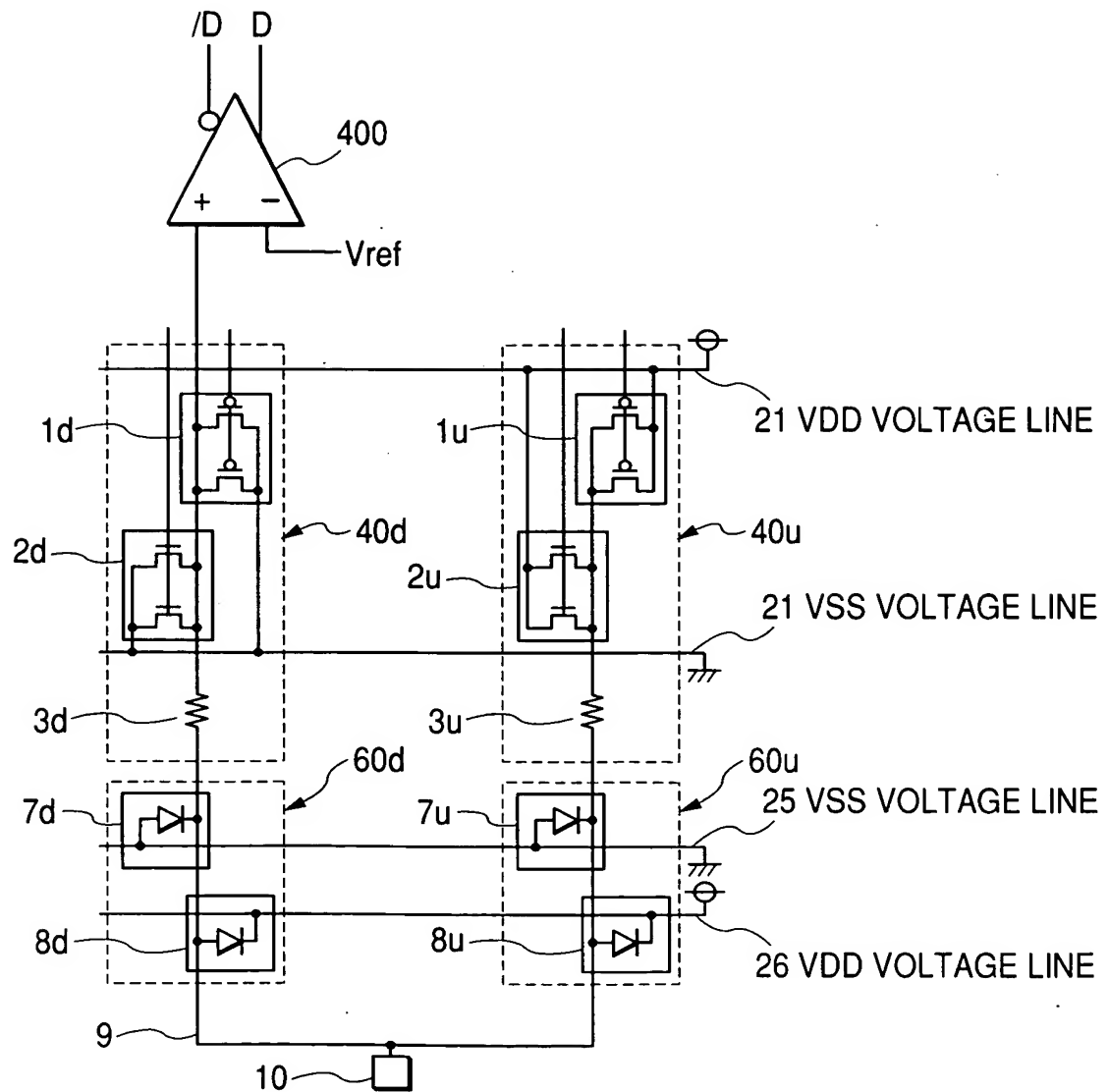
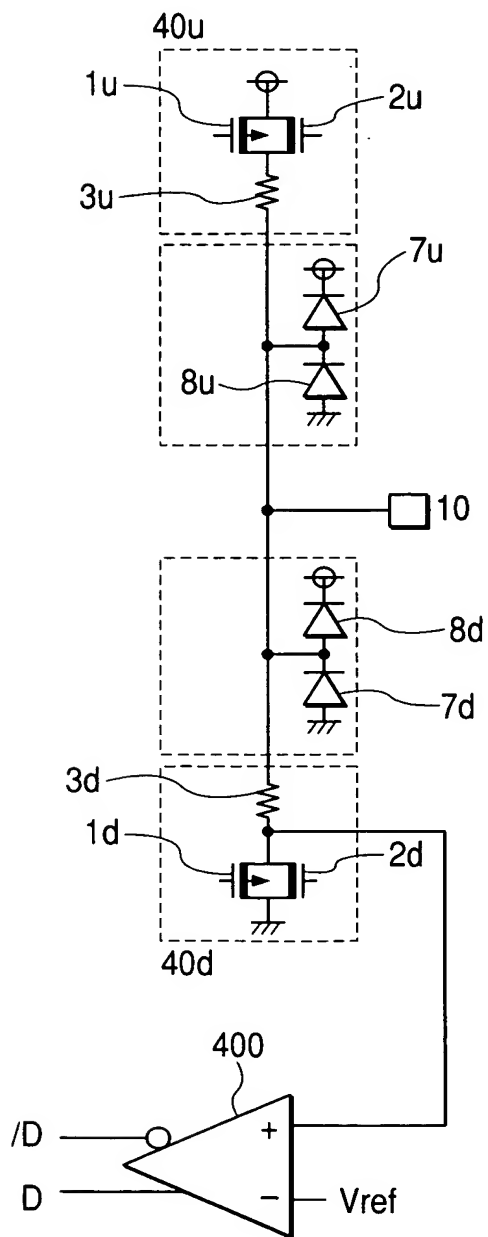


FIG. 38

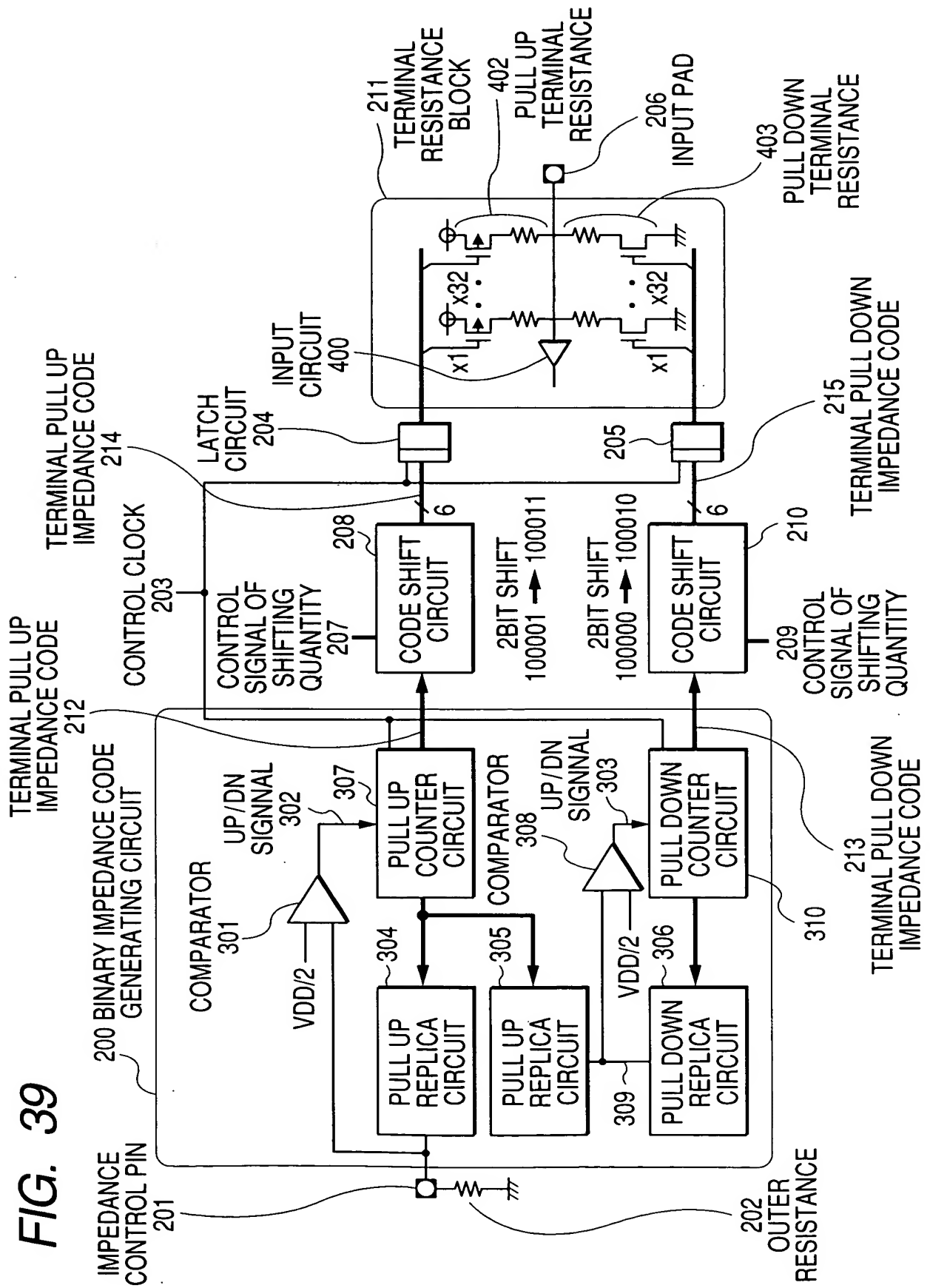
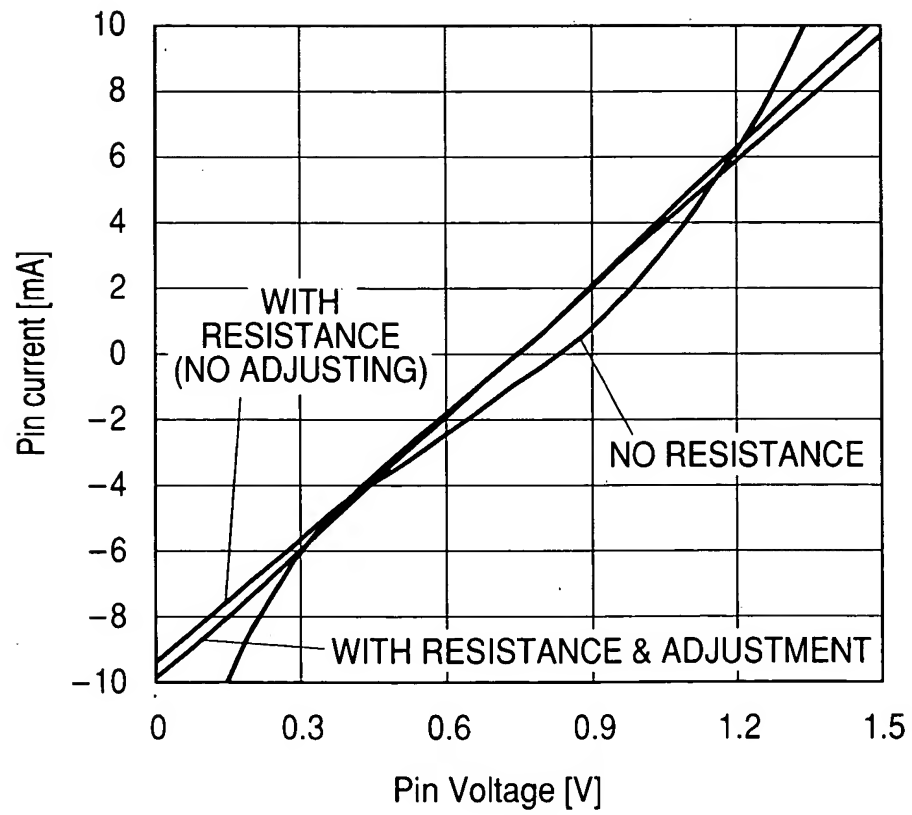


FIG. 40

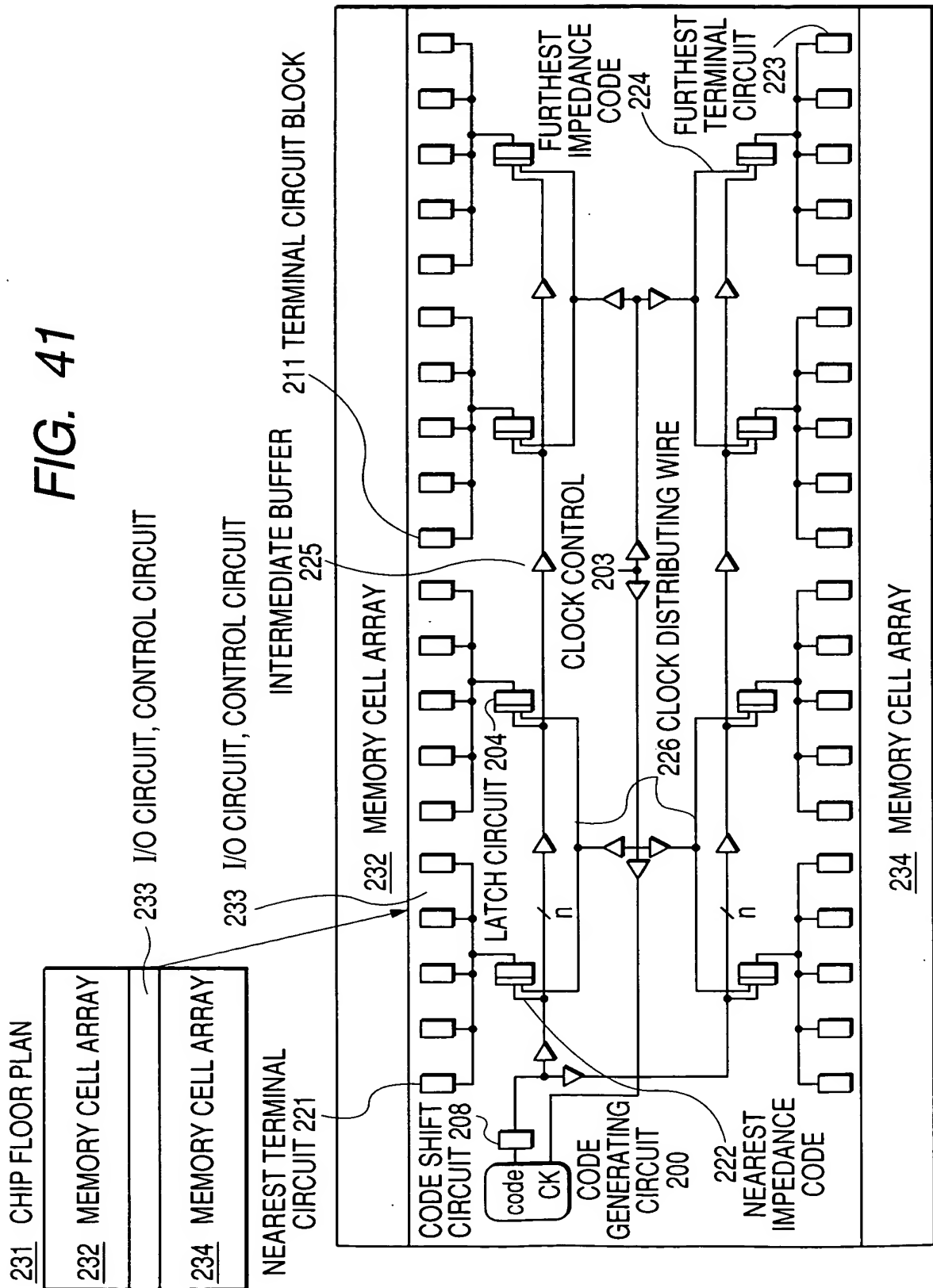


FIG. 42

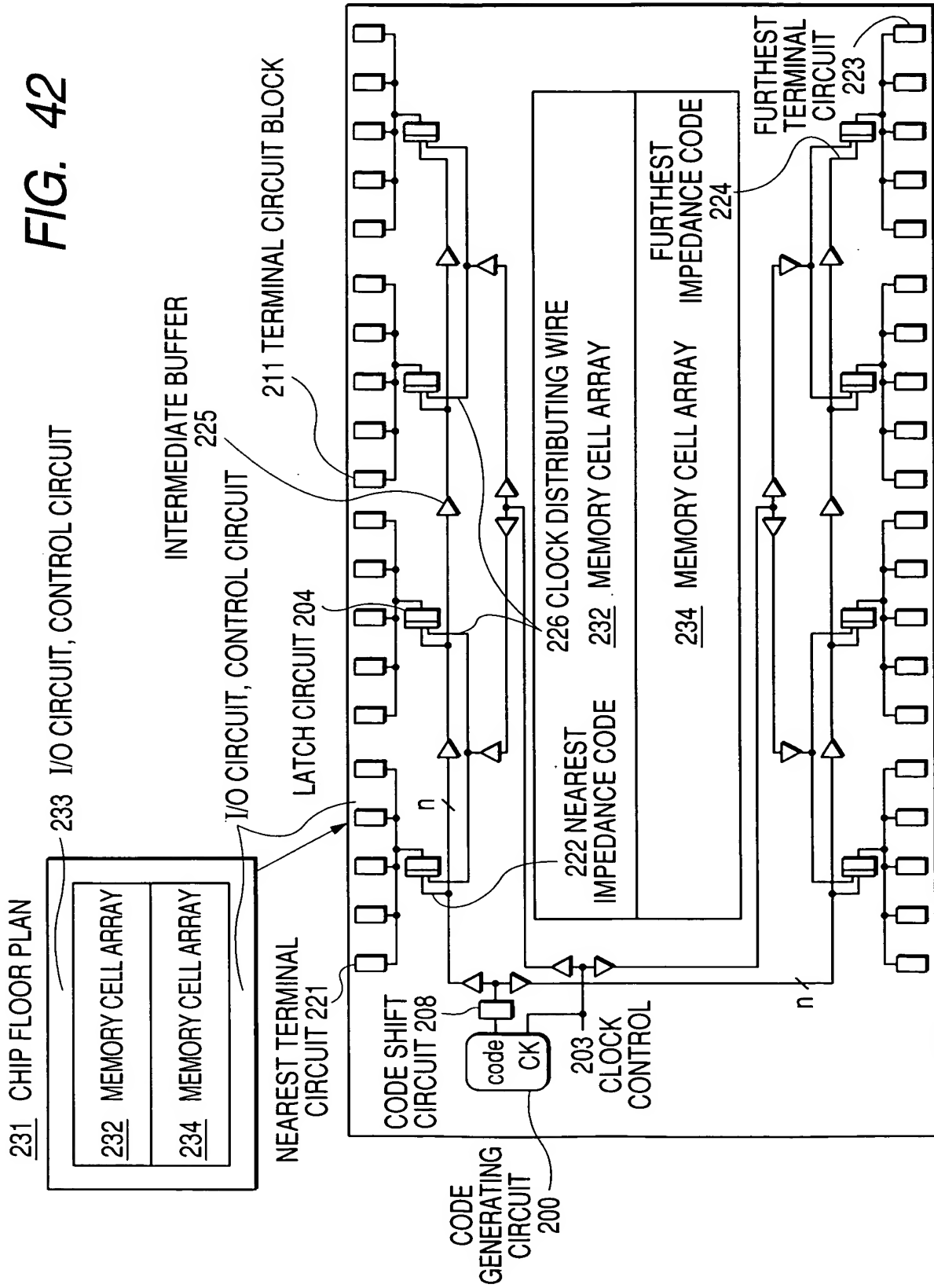


FIG. 43

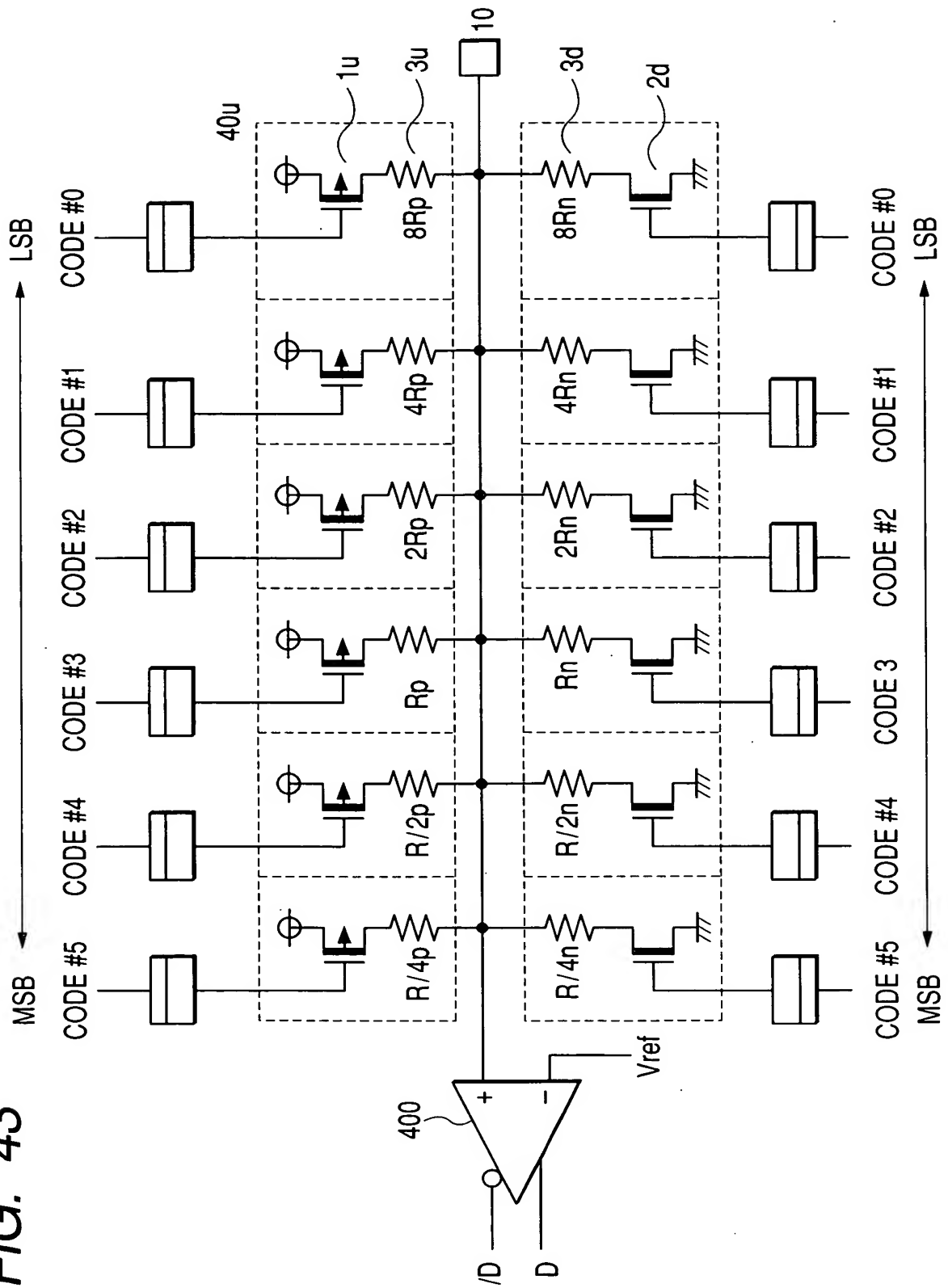


FIG. 44

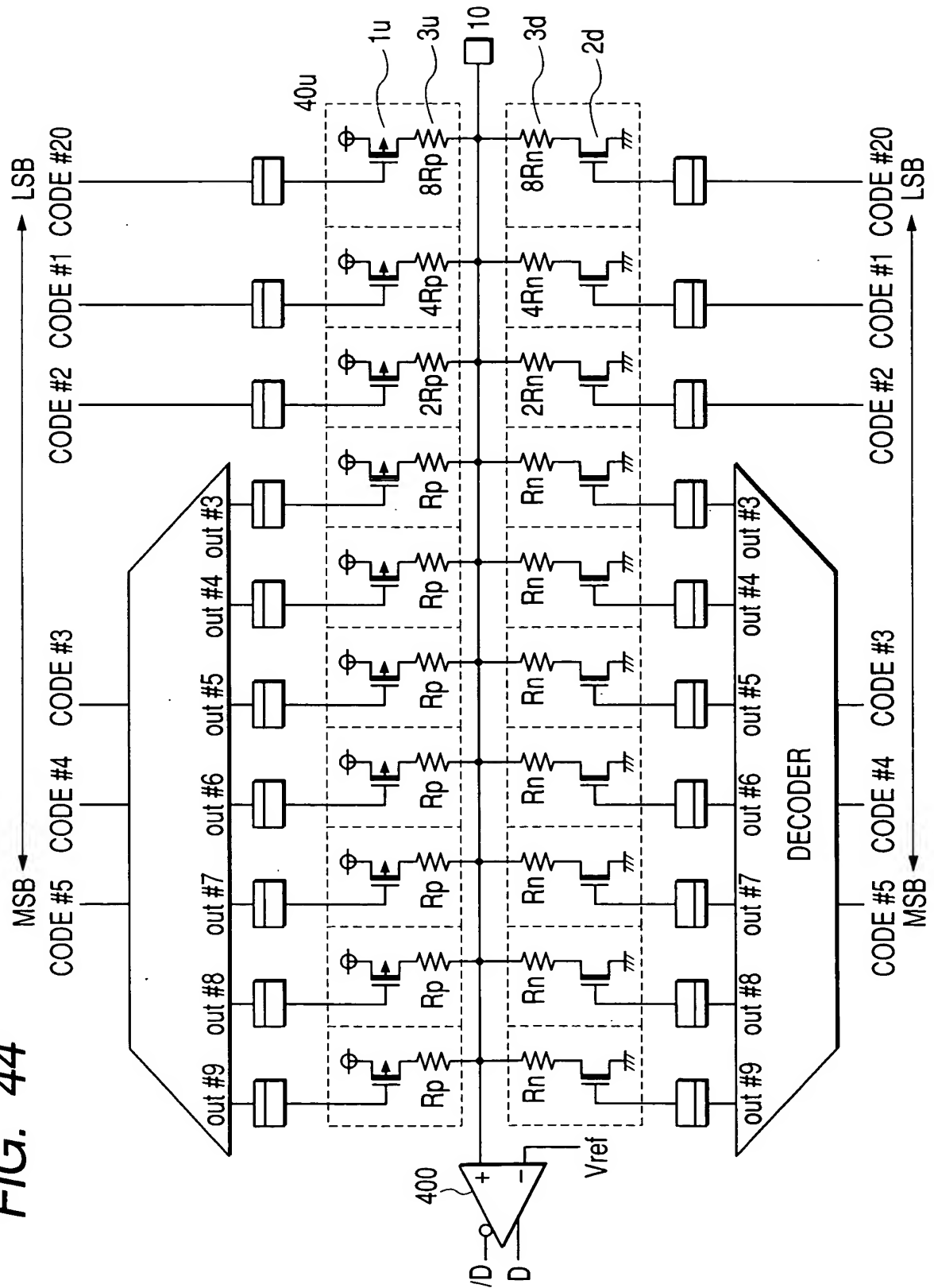


FIG. 45

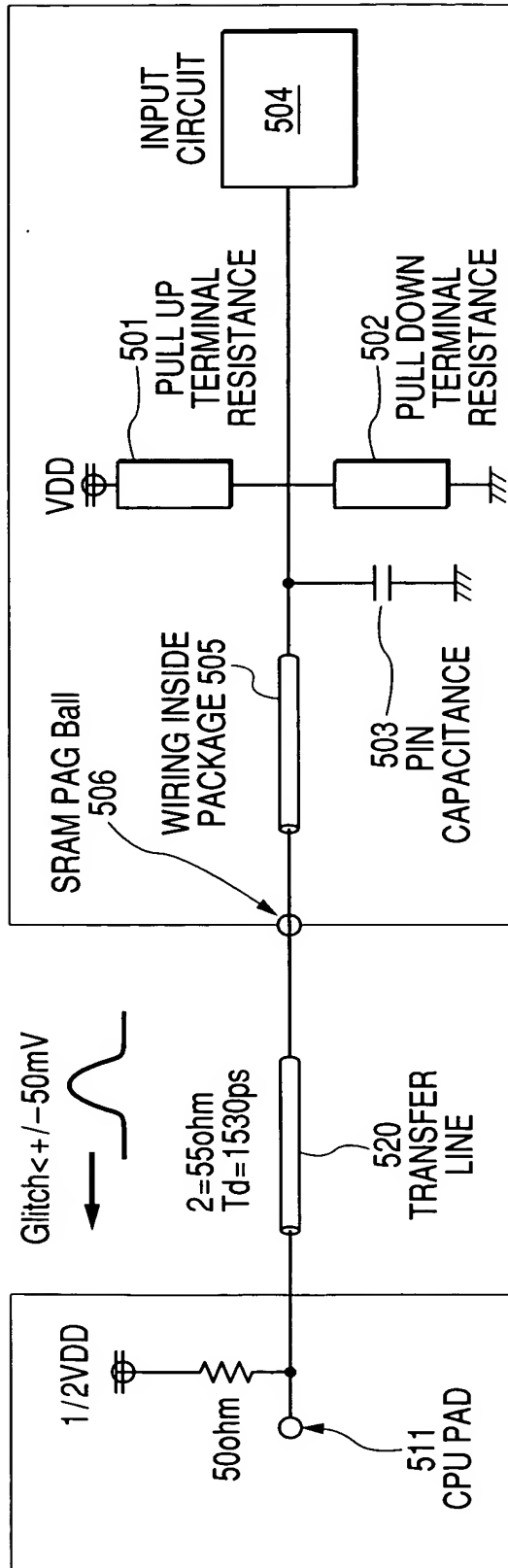
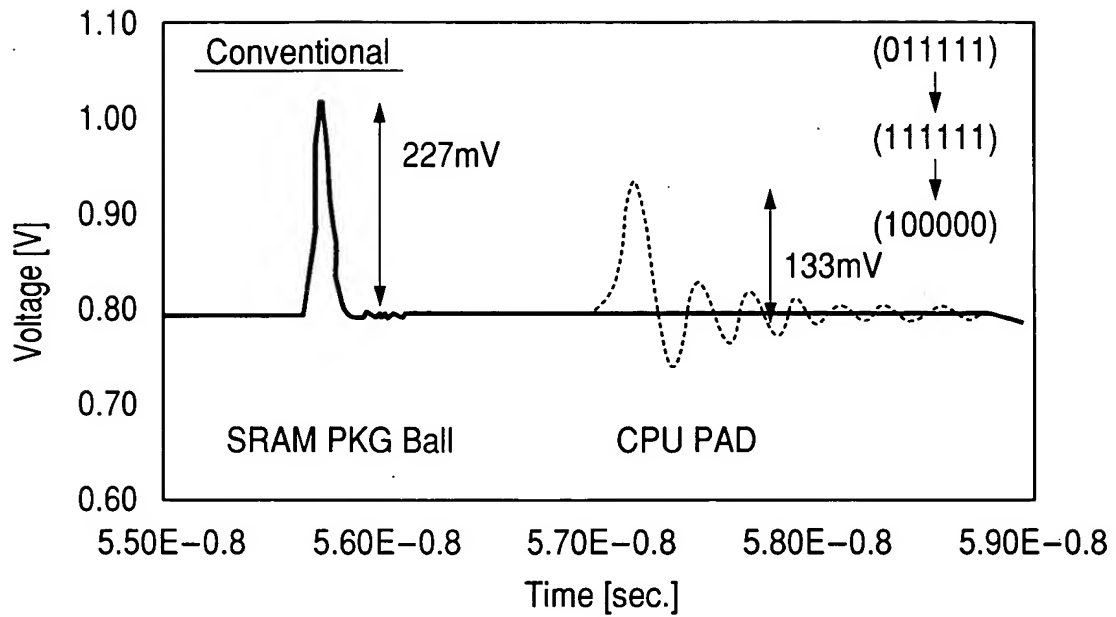


FIG. 46**FIG. 47**